# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 2, 1909.


## CONTENTS.


CONSTRUCTION NEWS:
Plans and Specifications on File..... 81
List of Contracts Pending..... 81
Railways ..... 82
Electric Railways ..... 82
Light and Power Plants..... 82
Bridges ..... 83
Buildings ..... 84
Water Supply and Irrigation..... 85
Sewerage ..... 85
Streets and Roads..... 86
Manufacturing Plants ..... 87
Miscellaneous Contracts ..... 87
EXAMINATIONS ..... 87
INDUSTRIAL NOTES ..... 88
TRADE PUBLICATIONS ..... 88
PROPOSALS ..... 88


## CONSTRUCTION NEWS.

### Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

| Bids close. | Work. | See issue. |
|---|---|---|
| 9- 3 | *Lighthouse, Tompkinsville, N. Y. (P. & S.) | 8-12 |
| 9- 8 | Memorial monument, Vicksburg, Miss. (S.) | 8-19 |
| 9-10 | Bridge, Jacksonville, Fla...(P.) | 9- 2 |
| 9-11 | Power station, Mare Island, Cal. (S.) | 8-19 |
| 9-14 | *Pumping engines, Detroit, Mich. (P. & S.) | 7-15 |
| 9-18 | Hospital buildings, Washington, D. C. (S.) | 8-19 |
| 9-18 | *Grading, Olathe, Kan. (P. & S.). | 9- 2 |
| 9-25 | Water tanks, New Orleans, La. .....(S.) | 9- 2 |
| 10-10 | *Seawall, Ft. McRee, Fla.(P. & S.) | 8-19 |

### List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

| | | |
|---|---|---|
| 9- 3 | Elec. plant impvt., Ashtabula, Ohio | 9- 2 |
| 9- 7 | Elec. light plant, Irvington, N. J | 9- 2 |
| 9- 7 | Elec. generating system, New Orleans, La. | 8-26 |
| 9- 8 | Remodeling plant, Macon, Miss.. | 9- 2 |
| 9- 9 | Power plant, Columbus, Ohio.... | 8-19 |
| 9-11 | Power station, Mare Island, Cal.. | 8-19 |
| 9-14 | Light plant, etc., Detroit, Minn. | 9- 2 |
| 9-14 | Electric equip., New York..... | 9- 2 |
| 9-15 | Conduit, Chicago, Ill ..... | 9- 2 |
| 9-20 | Elec. light equip., Orange, N. J. | 9- 2 |
| 10-14 | *Elec. motors, Toronto, Ont..... | 8-19 |
| 10-20 | Lighting, New Albany, Ind..... | 9- 2 |
| 10-28 | *Electric motors, Toronto, Ont... | 9- 2 |

BRIDGES.

| | | |
|---|---|---|
| 9- 2 | Bridge, etc., Hackensack, N. J.. | 9- 2 |
| 9- 3 | Bridge, Sandusky, Ohio..... | 8-19 |
| 9- 3 | Bridge, Mercer, Pa ..... | 8-26 |
| 9- 4 | Bridges, Danville, Pa..... | 9- 2 |
| 9- 6 | Bridge, etc., Council Bluffs, Iowa | 8-26 |
| 9- 6 | Bridge, Streator, Ill ..... | 8-26 |
| 9- 6 | Bridges, West Point, Miss ..... | 8-26 |
| 9- 6 | Bridge, Greenville, Miss ..... | 8-26 |
| 9- 6 | Culverts, Shelbyville, Ind..... | 8-19 |
| 9- 6 | Bridge, Greenwood, Miss..... | 8-19 |
| 9- 6 | Bridge, Wytheville, Va..... | 8-19 |
| 9- 7 | Bridges, Clear Lake, Iowa..... | 8-19 |
| 9- 7 | Bridge, Brazil, Ind..... | 8-19 |
| 9- 7 | Bridge, Fostoria, Ohio..... | 8-19 |
| 9- 7 | *Bridge designs, etc., Phoenix, Ariz. ..... | 8-12 |
| 9- 7 | Bridge, Oliversburg, Ohio ..... | 8-26 |
| 9- 7 | Bridge, Red Bluff, Cal..... | 9- 2 |
| 9- 7 | Bridges, Madison, Ind ..... | 9- 2 |
| 9- 7 | Bridge, Oakland, Md ..... | 9- 2 |
| 9- 8 | *Bridges, Chicago, Ill ..... | 8-26 |
| 9- 8 | Bridge, Pala, Cal..... | 8-19 |
| 9- 8 | Culvert, Cleveland, Ohio ..... | 9- 2 |
| 9- 9 | Repairing bridge, Reading, Pa... | 9- 2 |
| 9-10 | Bridge, Jacksonville, Fla ..... | 8-26 |
| 9-10 | Bridge, Missoula, Mont ..... | 9- 2 |
| 9-10 | Bridge, Jacksonville, Fla..... | 9- 2 |
| 9-11 | *Bridge, Green River, Utah ..... | 8-26 |
| 9-13 | Bridges, Barberton, Ohio ..... | 8-26 |
| 9-13 | Bridge, Zanesville, Ohio ..... | 9- 2 |
| 9-14 | Bridges, Easton, Pa ..... | 9- 2 |
| 9-14 | Bridge, Trenton, N. J..... | 8-26 |
| 9-14 | Trestle, Springston, Idaho..... | 8-19 |
| 9-14 | *Bridges, Philadelphia, Pa..... | 9- 2 |
| 9-18 | Bridge, Toledo, Ohio ..... | 9- 2 |
| 9-21 | *Steel bridge, Merced, Cal..... | 7-29 |
| 9-23 | Bridge, Umatilla Reservation, Ore ..... | 8-26 |

BUILDINGS.

| | | |
|---|---|---|
| 9- 3 | Library, Indianapolis, Ind..... | 8-26 |
| 9- 4 | Storage, Ft. Wayne, Ind..... | 9- 2 |
| 9- 6 | Quarters, Ft. Robinson, Neb..... | 9- 2 |
| 9- 6 | Court-house, Jasper, Ind..... | 7-29 |
| 9- 7 | Mech. equip., New Orleans, La.. | 8- 5 |
| 9- 7 | Heating, etc., London, Ind..... | 8-26 |
| 9- 7 | *Hospital, Ft. Yellowstone, Wyo.. | 8-26 |
| 9- 7 | Laundry (Mfg. Pl.). New York.. | 8-26 |
| 9- 7 | Repair shop (Mfg. Pl.), N. Y... | 8-26 |
| 9- 7 | Engine house, New York..... | 8-26 |
| 9- 7 | Heating, etc., New York..... | 8-26 |
| 9- 7 | School, Bradley Beach, N. J..... | 9- 2 |
| 9- 7 | Foundations, Helena, Mont ..... | 9- 2 |
| 9- 7 | School, Laramie, Wyo ..... | 9- 2 |
| 9- 8 | Air exhausting system, Grand Rapids, Mich ..... | 8-19 |
| 9- 9 | *Post-office, Saratoga Springs, N. Y ..... | 8- 5 |
| 9-13 | Asylums, St. Paul, Minn..... | 8-26 |
| 9-14 | Building, Hartford, Conn..... | 8-19 |
| 9-14 | Building, Fort Wayne, Ind..... | 8-19 |
| 9-14 | *Heat and power plant, Supply, Okla ..... | 8-19 |
| 9-15 | *Science hall, Washington, D. C.. | 8-19 |
| 9-15 | *Building, Washington, D. C.... | 8-26 |
| 9-16 | Post-office, San Angelo, Tex..... | 8-12 |
| 9-15 | Plans, Kenosha, Wis ..... | 9- 2 |
| 9-16 | Hospital, Ft. Worden, Wash.... | — |
| 9-18 | Hospitals, Chelsea, Mass..... | 8- 5 |
| 9-18 | Hospital buildings, Wash., D. C. | 8-19 |
| 9-20 | *Post-office, etc., Richmond, Va.. | 8-19 |
| 9-21 | Plans, Storrs, Conn..... | 9- 2 |
| 9-27 | Factory (Mfg. Pl.), Marshalltown Iowa ..... | 8-26 |
| 9-28 | *Post-office, Woonsocket, R. I.... | 8-26 |
| 9-29 | Post-office, Great Falls, Mont... | 8-26 |
| 9-30 | *Post-office, etc., Paducah, Ky... | 9- 2 |
| 10- 1 | *Post-office, Denison, Tex..... | 8-26 |
| 10- 4 | Hospital, Wash., D. C..... | 9- 2 |
| 10- 4 | *Post-office, Fredericksburg, Va.. | 9- 2 |

WATER-WORKS.

| | | |
|---|---|---|
| 9- 2 | Intake, Newark, Ohio ..... | 9- 2 |
| 9- 3 | Reservoir, Carthage, Mo..... | 8-26 |
| 9- 4 | Water tower, etc., Bottineau, N. Dak ..... | 9- 2 |
| 9- 5 | *Dam, etc., Lamar, Colo ..... | 8-26 |
| 9- 6 | Water-works, Smithfield, N. C.... | 8- 5 |
| 9- 6 | *Water main, Vicksburg, Miss.... | 7-29 |
| 9- 6 | Water mains, Grand Forks, N. Dak ..... | 9- 2 |
| 9- 6 | Water pipe, Cheviot, Ohio ..... | 9- 2 |
| 9- 7 | Pipe, Los Angeles, Cal ..... | 9- 2 |
| 9- 7 | Water-works, Hot Sulphur Springs, Colo ..... | 8-19 |
| 9- 7 | *Filter plant, South Milwaukee, Wis ..... | 8-26 |
| 9- 8 | Remodeling water-works, etc., Macon, Miss ..... | 8-26 |
| 9- 8 | *Mains, Christiansburg, Va..... | 8-26 |
| 9- 9 | *Relining reservoir, Doylestown, Pa ..... | 8-26 |
| 9- 9 | *Water-works, Henryetta, Okla... | 8-19 |
| 9- 9 | Water pipe, New York ..... | 9- 2 |
| 9-11 | *Cocks, Wash., D. C..... | 9- 2 |
| 9-13 | Water-works, Hartshorne, Okla. | 8-19 |
| 9-13 | *Dam, etc., Newburgh, N. Y..... | 8-26 |
| 9-14 | Aqueduct, Montreal, Que..... | 8-19 |
| 9-14 | Gate valves, etc., Richmond, Va. | 8-26 |
| 9-14 | Pumping engines, Detroit, Mich. | 7-15 |
| 9-14 | Water pipe, Detroit, Mich ..... | 9- 2 |
| 9-15 | Reservoir, Denver, Colo ..... | 9- 2 |
| 9-15 | *Coagulating basin, High Point, N. C ..... | 8-26 |
| 9-20 | *Water-works, Marietta, Ga ..... | 8-26 |
| 9-22 | Remodeling pumping plant, Fort Logan, Colo ..... | 9- 2 |
| 9-25 | Water tanks, New Orleans, La... | 9- 2 |
| 9-30 | Filter plant, Rock Island, Ill.... | 8-26 |
| 10- 5 | Cast-iron pipe, Montreal, Que... | 9- 2 |
| 10-14 | *Turbine pumps, Toronto, Ont.... | 8-19 |

SEWERS.

| | | |
|---|---|---|
| 9- 3 | *Sewer, Louisville, Ky ..... | 8-26 |
| 9- 3 | Sewers, etc., Girard, Ohio ..... | 9- 2 |
| 9- 4 | Sewers, Bottineau, N. Dak..... | 9- 2 |
| 9- 6 | *Sewers, Lake Placid, N. Y..... | 9- 2 |
| 9- 6 | Sewer, Hannibal, Mo ..... | 9- 2 |
| 9- 6 | *Sewers, Huntingdon, Pa ..... | 8-26 |
| 9- 6 | *Sewer, Vicksburg, Miss..... | 7-29 |
| 9- 7 | Sewers, Connellsville, Pa..... | 8-26 |
| 9- 7 | *Sewer, Philipsburg, Pa..... | 8-26 |
| 9- 7 | Sewer, New York ..... | 8-26 |
| 9- 7 | Sewer, Muskogee, Okla ..... | 9- 2 |
| 9- 7 | Sewers, Cherokee, Iowa ..... | 9- 2 |
| 9- 7 | Sewers, Cincinnati, Ohio ..... | 9- 2 |
| 9- 7 | Sewer, Bellevue, Pa ..... | 9- 2 |
| 9- 7 | Sewers, Irvington, N. J..... | 9- 2 |
| 9- 8 | Sewer, San Francisco, Cal..... | 9- 2 |
| 9- 8 | Sewer, Akron, Ohio ..... | 9- 2 |
| 9- 8 | Sewers, Buffalo, N. Y..... | 9- 2 |
| 9- 8 | Sewers, Columbus, Ohio ..... | 8-26 |
| 9- 9 | Sewers, etc., Orillia, Ont..... | 8-26 |
| 9-10 | Drainage, Sea Isle City, N. J... | 9- 2 |
| 9-13 | Drainage system, Atlantic City, N. J ..... | 9- 2 |
| 9-14 | Sewer, Morris, Minn ..... | 9- 2 |
| 9-17 | *Sewer, Louisville, Ky..... | 9- 2 |
| 9-20 | *Sewers, Fort Morgan, Ala..... | 8-26 |
| 9-24 | *Sewer, Louisville, Ky..... | 8-26 |

STREETS AND ROADS.

| | | |
|---|---|---|
| 9- 2 | Roads, Hartford, Conn ..... | 9- 2 |
| 9- 3 | *Paving, Paris, Ill..... | 8-26 |
| 9- 3 | Boulevard, Indianapolis, Ind..... | 8-26 |
| 9- 3 | *Paving, Paris, Ill..... | 8-26 |
| 9- 4 | Macadam, Columbus, Ohio..... | 8-19 |
| 9- 4 | Sidewalks, Silverton, Ohio ..... | 9- 2 |
| 9- 4 | Macadam, Columbus, Ohio ..... | 9- 2 |
| 9- 6 | Grading, Canonsburg, Pa ..... | 9- 2 |
| 9- 6 | Grading, etc., Carnegie, Pa..... | 9- 2 |
| 9- 6 | Walks, gutters, Northport, Ala.. | 9- 2 |
| 9- 6 | Road, Scottsburg, Ind ..... | 9- 2 |
| 9- 6 | Roads, Knox, Ind..... | 8-19 |
| 9- 6 | Road, Tipton, Ind..... | 8-19 |
| 9- 6 | Road, Delphi, Ind..... | 8-19 |
| 9- 6 | Road, Greencastle, Ind..... | 8-19 |
| 9- 6 | Road, Vernon, Ind..... | 8-19 |
| 9- 6 | Road, Shelbyville, Ind..... | 7-29 |
| 9- 6 | *Paving, Vicksburg, Miss..... | 7-29 |
| 9- 6 | Road, Scottsburg, Ind ..... | 8-26 |
| 9- 7 | *Pavements, Bayonne, N. J..... | 8-26 |
| 9- 7 | Street repairs, White Plains, N. Y. ..... | 8-26 |
| 9- 7 | Roads, Peru, Ind ..... | 8-26 |
| 9- 7 | Road, Kentland, Ind ..... | 8-26 |
| 9- 7 | Roads, Rockville, Ind ..... | 8-26 |
| 9- 7 | Roads, etc., Fort Leavenworth, Kan ..... | 8-26 |
| 9- 7 | Roads, Fowler, Ind..... | 8-19 |
| 9- 7 | *Street impvt., Westfield, N. J.... | 8-19 |
| 9- 7 | Grading, St. Paul, Minn..... | 8-19 |
| 9- 7 | Road, Vincennes, Ind..... | 8-19 |
| 9- 7 | Road, Williamsport, Ind..... | 8-19 |
| 9- 7 | Grading, etc., New York ..... | 9- 2 |
| 9- 7 | *Roads, Baltimore, Md ..... | 9- 2 |
| 9- 7 | Paving, Zanesville, Ohio ..... | 9- 2 |
| 9- 7 | Roads, Coshocton, Ohio ..... | 9- 2 |
| 9- 7 | Road, Mt. Vernon, Wash ..... | 9- 2 |
| 9- 8 | *Grading, etc., Griffin, Ga..... | 8-12 |
| 9- 8 | Grading, etc., Atlantic City, N. J. | 8-26 |
| 9- 8 | Roads, Muncie, Ind ..... | 8-26 |
| 9- 8 | Roads, Noblesville, Ind ..... | 8-26 |
| 9- 8 | Road, Winamas, Ind ..... | 8-26 |
| 9- 8 | Roads, Bluffton, Ind ..... | 8-26 |
| 9- 8 | Roads, Harrisburg, Pa ..... | 9- 2 |
| 9- 8 | Paving, Baltimore, Md ..... | 9- 2 |
| 9- 8 | Roads, Cambridge, Ohio ..... | 9- 2 |
| 9- 8 | Paving, etc., Hutchinson, Kan... | 9- 2 |
| 9- 9 | Roads, Harrisburg, Pa ..... | 9- 2 |
| 9- 9 | Grading, Cadi, Ohio ..... | 9- 2 |
| 9-10 | Roads, Hookset, N. H..... | 9- 2 |
| 9-10 | Grading, Millersburg, Ohio ..... | 9- 2 |
| 9-10 | *Paving, Fayette, Ohio ..... | 9- 2 |
| 9-10 | Paving, Valparaiso, Ohio ..... | 9- 2 |
| 9-10 | Road oiling, Cincinnati, Ohio.... | 8-26 |
| 9-10 | Roads, Bloomington, Ind ..... | 8-26 |
| 9-11 | Roads, Morristown, Tenn ..... | 9- 2 |
| 9-11 | Grading, North Yakima, Wash.. | 9- 2 |
| 9-14 | Paving, Newport News, Va..... | 8-26 |
| 9-14 | Broken stone, oil, New Brighton, N. Y. ..... | 9- 2 |
| 9-14 | *Road, Wilmington, Del ..... | 9- 2 |
| 9-14 | Grading, Pomeroy, Ohio ..... | 9- 2 |
| 9-15 | Macadam, Toledo, Ohio ..... | 9- 2 |
| 9-15 | Roads, Clinton, Tenn ..... | 8-26 |
| 9-15 | *Roads, etc., Fort Andrews, Mass. | 8-26 |
| 9-16 | Paving, etc., Beckley, W. Va... | 9- 2 |
| 9-18 | Grading, etc., Cleveland, Ohio... | 9- 2 |
| 9-18 | *Grading, Olathe, Kan ..... | 9- 2 |
| 9-20 | Grading, etc., Newton, N. J.... | 9- 2 |
| 9-20 | Paving, etc., Huntington, W. Va. | 9- 2 |
| 9-20 | Walks, Ft. Dade, Fla..... | 9- 2 |

MISCELLANEOUS.

| | | |
|---|---|---|
| At once | *Excavation, Sacramento, Cal.. | 9- 2 |
| 9- 3 | *Light-house, Tompkinsville, N. Y. | 8-12 |
| 9- 3 | *Seawall, Boston, Mass..... | 8-26 |
| 9- 4 | Dredging pumps, St. Louis, Mo... | 8-26 |
| 9- 4 | Dredging, Tiburon, Cal..... | 8-12 |
| 9- 6 | Ditch, Hallock, Minn. ..... | 8-26 |
| 9- 6 | Ry., Esquimalt & Nanaimo Ry.. | 8-12 |
| 9- 7 | Brick, New York..... | 8-26 |
| 9- 7 | Ditch, St. Paul, Minn..... | 8-26 |
| 9- 7 | Ditches, Webster City, Iowa..... | 8-26 |
| 9- 7 | Piers, No. Chicago, Ill..... | 8-26 |
| 9- 7 | Supplies, Panama ..... | 8-19 |
| 9- 7 | Dredging, Portland, Ind..... | 8-26 |
| 9- 7 | Wharf, New Orleans, La..... | 9- 2 |
| 9- 7 | Fire hose, Braddock, Pa..... | 9- 2 |
| 9- 8 | Sign posts, etc., New York..... | 9- 2 |
| 9- 8 | Memorial monument, Vicksburg, Miss ..... | 8-19 |
| 9- 9 | Supplies, Panama ..... | 8-19 |
| 9- 9 | River work, New Orleans, La.... | 8-19 |
| 9- 9 | Pile driver, Burrwood, La..... | 8-19 |
| 9-10 | *Seawall, Ft. McRee, Fla..... | 8-19 |
| 9-10 | *Excavation, etc., Fort Totten, N. Y. ..... | 8-19 |
| 9-10 | Culvert, Cincinnati, O..... | 8-26 |
| 9-10 | *Dredging, Buffalo, N. Y..... | 8-26 |
| 9-10 | Vessel, Washington, D. C..... | 9- 2 |
| 9-13 | Mattresses, etc., New Orleans, La ..... | 9- 2 |
| 9-13 | Ditch, Clinton, Iowa ..... | 9- 2 |
| 9-13 | Supplies, New York ..... | 9- 2 |
| 9-14 | Drain, Clarion, Iowa ..... | 9- 2 |
| 9-14 | Tunnel, Trenton, N. J..... | 9- 2 |
| 9-14 | *Concrete material, Detroit, Mich. | 9- 2 |
| 9-14 | *Dredging, Raritan, N. J..... | 8-19 |
| 9-14 | *Jetties, New York, N. Y..... | 8-26 |
| 9-15 | *Creosoted material, Galveston, Tex ..... | 8-19 |
| 9-15 | *Air compressor, Pittsburg, Pa.... | 8-19 |
| 9-15 | *Breakwater, Newport, R. I..... | 8-19 |
| 9-16 | *Excavation, levee, Norfolk, Va.. | 8-26 |
| 9-20 | Steel tugboat, Panama ..... | 8-26 |
| 9-20 | *Dam, machinery, Cincinnati, O.. | 8-26 |
| 9-20 | Levee, New Orleans, La..... | 9- 2 |
| 9-20 | Steel bars, Atlanta, Ga ..... | 9- 2 |
| 9-22 | Subway, Saskatoon, Sask ..... | 9- 2 |
| 9-27 | Steel tower, Wilmington, Del..... | 9- 2 |
| 9-28 | Vacuum system, Pierre, S. Dak. | 7-15 |
| 9-30 | Steamer, Ottawa, Ont..... | 8-26 |
| 10- 5 | Monument, Sharpsburg, Md..... | 8-26 |
| 10- 6 | *Steel barges, Vicksburg, Miss... | 8-19 |

EXAMINATIONS.

| | | |
|---|---|---|
| 9-15 | Laboratory Asst., Wash., D. C... | 8-19 |
| 9-15 | Asst. in Agriculture, Wash., D. C. ..... | 8-19 |
| 9-18 | Arch. Designer, Albany, N. Y... | 9- 2 |
| 9-18 | Topographic Draftsman, Albany, N. Y ..... | 9- 2 |
| 9-18 | Tracer, Delineator, Albany, N. Y. | 9- 2 |
| 9-18 | Inspector Drawing and Industrial Training, Albany, N. Y.... | 9- 2 |
| 9-29 | Electrical Asst., Wash., D. C.... | 8-19 |
| 9-29 | Engr. of tests, Wash., D. C..... | 8-19 |

## RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ARKANSAS, LOUISIANA & GULF.—An extension will be constructed soon, it is said, from Hamburg to Pine Bluff, Ark., thence north to either DeVall's Bluff or Mena, Ark. A bonus has been raised and right-of-way secured through the city and county. Free terminals and a depot site have been assured by Pine Bluff. J. M. Parker is Gen. Mgr., at Hamburg, Ark. Noted on Nov. 19, 1908.

BROOKVILLE & MAHONING.—Bids have been invited for the construction of the Brookville & Mahoning R. R., according to press reports from Pittsburg, from its present southern terminus at Knoxdale, Pa., near Brookville, to Mahoning, on the Allegheny River. It is planned to have the work started by Sept. 15. "The survey, which has just been adopted, will insure a short line from the county seat of Jefferson to the Allegheny River. Leaving Knoxdale, the survey embraces six tunnels and four aqueducts, with stations at Sprangle Mills, Dora, Petersburg, Putneyville, Charleston and Mahoning. The largest tunnel on the new division will be from a point between Sprankle Mills and Worthville to a point on the south side of the ridge, near Dora. It will be 1,929 ft. long. Other heavy tunnel work will be at Markham and just south of Knoxdale. While some work will be done immediately along the west side of the Allegheny River and some grading will be commenced in a few days from the Kiskiminetas up the Allegheny, no contracts will be awarded for the present at that point as the officials are anxious to rush construction on the east side of the river." The Brookville & Mahoning R. R. will be leased to the Pittsburg, Shawmut & Northern R. R. Co., of which Wm. Barclay Parsons, 60 Wall St., New York, is Engr.

CHICAGO, BURLINGTON & QUINCY.—Contract has been awarded to M. C. CONNORS, Green Bay, Wis., for building an extension from Herrin, Ill., south to Metropolis, on the north bank of the Ohio River, 57 miles. The Herrin Southern Ry. Co. was recently incorporated in Illinois with a capital of $100,000 to carry out this work. The incorporators are D. Willard, D. A. Howard and L. V. Larson, of Chicago; F. E. Ward, of Evanston, and J. N. Dering, of La Grange. Previously noted.

GREAT NORTHERN.—Bids have been received by A. H. Hogeland, Ch. Engr., St. Paul, Minn., for building the line from Oroville, Wash., down the valley of the Okanogan River to Brewster, about 60 miles. Contracts have recently been let as follows: For the new branch from Bainville, Mont., north 50 miles; also for the branch from Stanley, N. Dak., north 24 miles.

HAVANA CENTRAL.—The SNARE & TRIEST CO., 143 Liberty St., New York, is reconstructing the wharf and dock of the Havana Central R. R. Co. at Muelle de Luz, Havana Harbor. This dock was destroyed last May by fire, with a loss of about $1,000,000. The Snare & Triest Co. is building the dock with reinforced concrete, using the Chenowith reinforced concrete piles. The piles are made at Regla, where the Snare & Triest Co. has established an extensive plant for manufacturing Chenowith concrete piles, operating in the West Indies and Central America.

KANSAS CITY SOUTHERN.—We are officially advised that the FERGUSON CONTRACTING CO., 37 Wall St., New York, has been awarded contract for change of line between De Queen and Neal Springs, Ark., 12 miles. Estimated cost, $750,000.

LEHIGH VALLEY.—Contracts have been awarded, as follows, aggregating $1,000,000, for the four-tracking of the line between Easton and Slatington to F. H. CLEMENT & CO. and J. A. KELLY & CO., of Philadelphia. The work is to be completed in seven months. North of Allentown Kelly & Co. have the contract for 16 miles of four-track road. To the east of Allentown, Clement & Co. will complete 17 miles of quadruple tracks. This contract also includes the removal of Calypso Island at Bethlehem and the building of a large yard at Redington to relieve traffic congestion at Easton.

MEXICO.—Plans and specifications for the proposed Teziutlan to Nautla railroad have been presented to the governor of Puebla by the board of directors of the company. The members of the board include Ernesto Zorrilla, Manuel de la Fuente, Juan Barron, Ing. Ignacio Munoz and Ing. Leopoldo Villarreal. The road will be 135 kilometers long and will cost $5,000,000.

NATCHEZ, COLUMBIA AND MOBILE.—This company, we are officially advised, is building a five-mile extension to its line, and is doing considerable reconstruction, changing grades and straightening the alignment. The WORTHINGTON CONSTRUCTION CO., of Brookhaven, Miss., is the contractor. Albert T. Witbeck, Brookhaven, is Ch. Engr.

NEWPORT, OTTER ROCK & SILETZ.—Incorporated in Oregon, with $100,000 capital stock, to build a standard-gage railroad from Newport, Ore., via Cape Foulweather and Otter Rock, to a point on the Siletz River. Incorporators include D. L. Kent and R. F. Baker, Portland.

OREGON SHORT LINE.—It is announced that surveys are under way for an extension of the Minidoka & Southwestern Ry., from Buhl, Idaho, west. A grading contract has been let to the UTAH CONSTRUCTION CO., of Ogden, Utah, for the new line from Rupert, Idaho, on the Minidoka & Southwestern Ry., west, running north of the Snake River to Bliss, on the main line, 73 miles, as noted last week.

PENNSYLVANIA R. R.—Plans have practically been completed by Pennsylvania Railroad engineers for a railroad yard in Sharpsburg, Pa., which, including shops and other improvements, will involve an expenditure of about $2,000,000. The yards will extend from Etna to Aspinwall, and will take up all that property lying between Main St., Sharpsburg, and the Allegheny River.

Contracts will be awarded soon for improvements to cost about $1,000,000 which are to be made at Greenburg, Pa. The work includes laying two additional tracks through Greensburg, building a new station, the removal of a tunnel and reducing the present grade of 1% to ½%.

ST. LOUIS & SAN FRANCISCO.—The VULCAN CONSTRUCTION CO., Liggett Bldg., St. Louis, Mo., has been awarded the contract for improving the company's yards at West Marion, Ark. Estimated cost, $50,000. To relieve the congestion of the Memphis yards and take care of the rapidly increasing freight traffic handled to and through Memphis, the St. Louis & San Francisco Railroad Co. will immediately expend $200,000 in improving the present

yards at West Marion, Ark., ten miles west of Memphis. In addition to the improvements planned for West Marion, the Frisco will immediately begin the reballasting of its line between Holly Springs, Miss., and Memphis, a distance of 45 miles, the sum of $12,000 having already been appropriated for this purpose. Birmingham slag will be used for this work.

SHAW & SOUTHWESTERN.—We are officially informed that contracts will be let in the fall for building this railway from Shaw, Miss., southwest to Greenville, Miss., 30 miles. Surveys have not been made. Capital and right-of-way are secured. J. C. Walker, Shaw, is Pres. Engineer has not been appointed yet. Noted on June 24.

WESTMORELAND & RED BOILING SPRINGS.—Albert J. Bright, of Bright Bros. Construction Co., of Nashville, is reported to be making preliminary survey for the proposed Westmoreland & Red Boiling Springs Railroad, which is to extend from Westmoreland east to Red Boiling Springs, 28 miles. Right-of-way is partly secured. W. A. Smith is Pres., Lafayette, Tenn.; P. D. Grizzard is Ch. Engr., Edgefield, Tenn. Noted on May 27.

## ELECTRIC RAILWAYS.

HAMPSTEAD, N. H.—The Governor's Island Co. has been incorporated in New Hampshire to connect Manchester and several New Hampshire towns. The officers are: Pres., George G. Adams, of Lawrence, Mass.; Secy. and Treas., Arthur M. Emerson, Hampstead. Directors, G. G. Adams, W. A. Gabler, Lawrence; Arthur M. Emerson and P. M. Sweeney, of Lawrence.

MARS, PA.—Right-of-way is being secured by the Rochester & Mars St. Ry. Co. and plans are stated to have been completed for the construction of this proposed electric railway, to extend from the Baltimore & Ohio Railroad depot at Mars, to Rochester, a distance of 23 miles. The railway will cost approximately $400,000. It will connect with the Pittsburg & Butler Street Railway; with the Pittsburg, Harmony, Butler & New Castle Railway, and with the Beaver Valley Traction Co. J. H. Barrett, 331 Fourth Ave., Pittsburg, is Pres. and Ch. Engr. The company recently applied for a charter, as noted fully on July 8.

ATHENS, W. VA.—Contract has been awarded to BROWN & PECK, of Princeton, by the Mercer Elec. Ry. Co. for building six miles of line from Athens to Princeton, W. Va. One small bridge will be required. W. F. Wall, Blacksburg, is Engr.-in-Charge. R. G. Meador is Pres., Athens; R. C. Dangerfield, Vice-Pres.; A. M. Sutton, Secy.; J. R. Vermillie, Treas., all of Princeton, W. Va.

HENDERSON, N. C.—H. S. Henderson has been granted a franchise to build a street railway.

LOUISVILLE, KY.—SMETHWIST & ALLEN, of Lexington, Ky., have been awarded contract for electrical work on the Louisville & Eastern R. R. extension from Beechwood to Shelbyville, Ky. CHAS. L. CHRISTOPHER, Louisville, Ky., has general contract, as noted on Aug. 5.

KINGMAN, IND.—The Covington & Southwestern Ry. Co. plans to have 25 miles of line built this year. J. J. BURNS & CO., Chicago, have the construction contract. The railway will have two routes, one being from Kingman to Crawfordsville and the other from Kingman to Covington. William C. Ruhl is Pres.; B. E. Jones, Secy., and Harmon W. Campbell, Treas.

EAST ST. LOUIS, ILL.—The East St. Louis, Columbia & Waterloo Electric Ry. Co. will award contracts for construction soon. E. F. Schoenning is Pres.; H. Reichenbach, Columbia, Ill., Secy. and Treas. Baxter Brown is Engr., Laclede Bldg., St. Louis, Mo. Noted on May 13 and March 25.

CHRISMAN, ILL.—The City Council has granted a 50-year franchise to the Paris & Northern Ry. Co., of Danville, to operate its electric railway in Chrisman. The railway is to run from Ridgefarm to Paris, a distance of 26 miles.

OBLONG, ILL.—The Oil Belt Traction Co. has decided to extend its line to Mount Carmel. The road will extend from Charleston to Mt. Carmel through Casey, Belair, Oblong, Hardinsville and Bridgeport. Arrangements are being made to hold a meeting in Mt. Carmel at once. It was decided to increase the capital stock of the company from $100,000 to $500,0000. Two and one-half miles of the road has already been built. Noted on July 29.

SYCAMORE, ILL.—The Elgin & Sycamore Ry. Co. has completed surveys for its proposed Elgin-Sycamore line. G. N. Lamb, St. Charles, Ill., is Engr. As noted on April 15, this company has been incorporated in Illinois for the purpose of constructing an electric railway through Elgin to Sycamore and thence through De Kalb to Dixon and to Aurora. Capital stock, $100,000. Directors: B. C. Payne, F. N. Rogers, E. S. Bailey, F. J. Hohling, F. W. Merrick and F. N. Rogers, all of Elgin.

MILWAUKEE, WIS.—The Milwaukee Western Electric Ry. Co. plans to begin grading this fall on its electric railway from Milwaukee to Beaver Dam, if right-of-way is acquired. Contracts for material will not be let until the latter part of the year. W. D. CHAPMAN, 1537 Marquette Bldg., Chicago, Ill., has the contract for constructing this railway. It will have a total length of main line and branch of approximately 68 miles. J. W. Barber, Secy. Noted on June 17.

DES MOINES, IOWA.—The American Engineering Co., Terminal Bldg., Indianapolis, Ind., is completing surveys for the Des Moines & Sioux City R. R., which will connect these two cities. The line will be about 110 miles long.

WATERLOO, IOWA.—The Waterloo, Cedar Falls & Northern Ry. Co. will build an extension from Waverly to Denver, six miles; also other improvements and extensions to cost $500,000. C. D. Cass is Gen. Mgr.

ANOKA, MINN.—The Anoka & Minneapolis Suburban Ry. Promotion Co. was recently incorporated to construct an electric railway betwen Anoka and Minneapolis. Capital stock, $50,000. Incorporators: H. L. Patthey, Minneapolis; A. E. Giddings, L. J. Greenwold, C. N. Ball, R. W. Akin and A. R. Pratt, of Anoka, and C. J. Swanson and C. A. Nelson, of Fridley. Surveys will be started soon.

CHANUTE, KAN.—The City Council has granted the Chanute Electric Ry. Co. an extension of its franchise until July 10, 1910, in which to begin work on its railway.

ROSEDALE, KAN.—The Board of Railroad Commissioners has granted permission to the Kansas City, Lawrence & Topeka Electric Ry. Co. to issue $2,000,000 in securities to build its projected electric railway between Topeka and Kansas City, 67 miles. R. W. Hocker and J. A. Stewart, 408 Gumbel Bldg., Kansas City, Mo., are incorporators. Noted on June 24.

WHITEWOOD, S. DAK.—The Dakota Western R. R. Co. has been organized to construct a 30-mile electric railroad from Whitewood, S. Dak., to Attainment, S. Dak. Surveys for the line have not been made as yet. S. R. Cleaver, Empire, S. Dak., is Pres. Noted on April 1.

HELENA, MONT.—Construction will be started soon by the Montana Rapid Transit Co. on its proposed 72-mile electric railway which is to connect Helena and Butte with East Helena, Montana City, Clancy, Alhambra, Jefferson, Beavertown, Amazon, Boulder, High Ore, Basin, Bernice, Calvin, Lowland, Woodville and Meadverville. Spurs will be constructed from East Helena to Lakeview, an amusement resort, also from Jefferson to Wickes, via Corbin. The company has secured the grade of the old Northern Pacific Railroad out of Helena and also the abandoned grade of the Great Northern Railroad from Weeks tunnel to Boulder. Contracts for material have not been awarded. The company has contracted with the United Missouri River Power Co. for the necessary power to operate its lines. Jos. K. Toole is Pres.; H. G. Pickett, Vice-Pres.; E. C. Day, Secy. and Treas.

TULSA, OKLA.—A franchise has been voted to the Oklahoma Union Traction Co. Construction will begin immediately on line from Tulsa to Sapulpa. No purchases have been made yet.

WALLA WALLA, WASH.—The Spokane, Walla Walla & Western Ry. Co. has been incorporated to take over the holdings of the Columbia & Walla Walla Traction Co., which planned to build an electric railway from Dayton to Wallula, a distance of 60 miles. Capital stock, $3,000,000. Incorporators: E. M. Symonds, M. S. Parker, G. S. Haynes, A. H. Hoffman and E. C. Maxon, Spokane; H. M. Hanger, Dayton and W. L. Russell, Walla Walla. E. M. Symonds is Pres., Spokane; M. S. Parker is Vice-Pres. and Ch. Engr., Spokane.

## LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

WATERVILLE, ME.—The Messalonskee Electric Co., of Waterville, will soon ask for bids for the construction of a new electrical power-house, which will be erected on the Messalonskee stream at a point known as Rice's Rips. W. S. Wyman is Mgr., Waterville.

WESTFIELD, MASS.—The Selectmen awarded the contract for the enlargement of the municipal power plant to the WESTINGHOUSE MACHINE CO., 165 Broadway, New York, on Aug. 13 at $24,323. The completion of the new addition will increase the local plant about 900 HP. A 750-KW. horizontal turbine engine will be installed and the figures submitted include all of the details except the outside piping. The parts included, besides the engine, are generator, switchboard, meters and Terrill regulators.

HAVERHILL, MASS.—The contract for the construction of the $1,000,000 plant of the Plymouth County Gas Co., P. J. Nevins, Gen. Mgr. has been awarded to the WESTERN GAS CONSTRUCTION CO., of Fort Wayne, Ind. Work will be begun at once, it being planned to have the entire plant ready for operation by June 1, 1910. The company will build a gas holder of 1,000,000 ft. capacity and the equipment will also include a relief holder of 100,000 ft. and duplicate sets of water gas machines of 1,000,000 ft. capacity daily. The plant will be erected on the water front at East Braintree and it is proposed to lay 100 miles of mains eventually connecting ten towns in that section of the state. Franchises have already been secured in Braintree, Rockland, Abington, Whitman and Weymouth and work will be begun at once to lay the mains in those towns. The other places that will later be supplied with gas from the plant are Hingham, Randolph, Holbrook, Cohasset and Nantasket Beach.

NEW YORK, N. Y.—Bids are asked by the Commissioner of Docks until noon, Sept. 14, for furnishing all the labor and materials required for furnishing and erecting appliances, etc., to complete the electric installation at the Department Yards at West 57th St., North River, and East 24th St., East River.

HUDSON, N. Y.—Bids were opened by Charles H. Strong, Pres. Bd. Mgrs. New York State Training School for Girls, at Hudson, on Aug. 14, for construction of new power-house, coal pockets and trunk conduit. The lowest bid received was that of John Dyer, Jr., of Albany, at $50,000. Franklin B. Ware is State Arch., Albany.

NIAGARA FALLS, N. Y.—J. A. Bard, of Buffalo, submitted the lowest bid, it is reported, for a 4-way duct for the transmission of electricity from the Schoellkopf power-house to the proposed station of the new water-works on the upper river at the city line at $12,700.

IRVINGTON, N. J.—Bids, including plans and specifications for the installation of a municipal electric light plant will be received at the office of the Town Clerk until Sept. 7. George M. Williams is Chn.

PHILADELPHIA, PA.—JOHN R. WIGGINS, 1215 Filbert St., has secured contract to build a 1-story brick power-house on the west side of Kensington Ave., north of J St., for the Philadelphia Electric Co., at about $18,000. A. J. DeCamp is Mgr.

PHILADELPHIA, PA.—The Philadelphia Rapid Transit Co. will enlarge its power-house on Market St., west of 38th St. Permits were granted on Aug. 20 for a concrete, stone and brick addition to the plant, 78.4 × 85 ft., at the southwest corner of Market and 33d Sts. Cost, $61,000.

PHILADELPHIA, PA.—See item under Buildings.

MYERSTOWN, PA.—The READING ELECTRIC CO., 9 North Fifth St., Reading, has received the contract for the erection of a new gas plant for the Myerstown Gas & Fuel Co., at Myerstown. The contract is for a 1½-story brick building, 35 × 45 ft. in dimensions, and a gas holder having a capacity of 20,000 cu. ft. The specifications call for the laying of about seven miles of pipe. W. H. Hess is Secy.

MACON, MISS.—Bids for remodeling the municipal electric light plant and waterworks are asked until Sept. 8. George U. Borde, of New Orleans, La., is Consulting Engr.

ALEXANDRIA, LA.—See item under Water Supply—Irrigation.

CHATTANOOGA, TENN.—The AMBURSEN HYDRAULIC CONSTRUCTION CO., Boston, Mass., has secured contract, it is reported, from the Caroline-Tennessee Power Co. for its proposed power plant on Hiwassee River. About 30,000 HP. will be developed.

CLEVELAND, OHIO.—The Board of Control and Board of Public Service awarded contract on Aug. 16 for a new boiler and stoker for the municipal lighting plant to the BABCOCK & WILCOX CO., New York, at $7,612.

ASHTABULA, OHIO.—Bids will be received by the Board of Public Service until noon, Sept. 3, for furnishing the necessary labor and materials for the improvement of city electric light plant for erection of one brick stack. A. J. Richardson is Clk.

ROCKVILLE, IND.—Bids were opened by Henry Moore, Pres. Comrs. of Tuberculosis Hospital Comn., Indianapolis, on Aug. 18, for the electric work for proposed hospital at Rockville. Contract has been awarded to the SANBORN-MARSH ELECTRIC CO., 115 N. Illinois St., Indianapolis, at $8,241.

NEW ALBANY, IND.—Bids will be received until Oct. 20 by the Board Public Works for lighting by electricity the streets, alleys and public places for a term of ten years from Sept. 1, 1910. John C. Short is City Clk.

CHICAGO, ILL.—Bids will be received by the South Park Commissioners until noon, Sept. 15, for furnishing approximately 70,000 ft. of single duct electric conduit delivered at specified points over the South Park system. E. G. Shumway is Secy.

MADISON, WIS.—See item under Buildings.

HAWLEY, MINN.—Bids were opened on Aug. 13 for water-works and electric light plant, to include brick or concrete building, 50,000-gallon steel tank and tower or air compressor tank and concrete reservoir, distributing pipe line system, dynamo, switchboard and pole line wiring; also pumping plant, from plans of Oscar Claussen, of St. Paul. Contract has been awarded to FAIRBANKS, MORSE & CO., of St. Paul, at $13,750.

DETROIT, MINN.—Bids are asked by W. L. Taylor, Pres. City Lighting Committee, until 7.30 p. m., Sept. 14, for the installation of a light, power, water and heating plant here. Steam and electric equipment, water mains, intake pipes and pumps are included. Estimated cost, $75,000.

PINE BLUFF, ARK.—The contract for electrical equipment and electrical wiring for the new 7-story bank and office building for the Citizens' Bank in this city has been awarded to the PINE CITY ELECTRIC CO., of Pine Bluff, Ark.

WAGONER, OKLA.—See item under Water Supply—Irrigation.

MORRISON, COLO.—See item under Water Supply—Irrigation.

BREMERTON, WASH.—Contract for furnishing and installing power plant equipment, to include piping, pumps, condensers, heaters, etc., at the navy yard, Puget Sound, is reported to have been awarded to the D'OLIER ENGINEERING CO., Philadelphia, Pa., at $57,950.

SEATTLE, WASH.—The Seattle Electric Co. has let contract to the STONE & WEBSTER ENGINEERING CO., 147 Milk St., Boston, Mass., for a brick substation at Ballard to supply current to the new railways in the northern part of Seattle. Current from this station will also be sold to the Puget Sound International Ry. & Power Co., which has an interurban line under construction between Seattle and Everett. This station will have an ultimate capacity of 25,000 KW. in railway motor-generator sets and 4,000 KW. in 2,200-volt light and power capacity. It will receive power from the generating stations over a 13,800-volt, 3-phase transmission line. The synchronous motors on the motor generator sets will receive this power at 13,800 volts. It is the intention to install one 500-KW. motor-generator set immediately, adding a 1,000-KW. set and two 1,000-KW. transformers in the fall. [illegible] KW. capacity in railway [illegible] 000-KW. in light and pow[illegible] peak loads during next w[illegible] ter is Mgr., Seattle.

MARE ISLAND (Vallejo —Bids were received as fo[illegible] by the Bureau of Yards Department, Washington, construction of a structura[illegible] building No. 121, Central Navy Yard, Mare Island: Co., 30 Church St., New Y[illegible] Baltimore St., Baltimore, M[illegible] Construction Co., Monadn[illegible] Francisco, $16,315; McClint[illegible] Pottstown, Pa., $17,00[illegible]; G[illegible] 26 Cortlandt St., New York[illegible] pion Iron Co., Kenton, Ohi[illegible] Bridge Co., Bond Bldg., W[illegible] 898.

MODENA, UTAH.—The G[illegible] ing & Power Co. has awar[illegible] is reported, for the equip[illegible] plete gas producer electric[illegible] the WESTINGHOUSE MAC[illegible] Broadway, New York, and [illegible] plant to the F. C. RICHM[illegible] ERY CO., to be completed [illegible] Cost, about $50,000. The pl[illegible] two 190-HP. Westinghouse [illegible] producer engines, two 16 × 1[illegible] engines of 162-HP. at the [illegible] ft., and two 110-KW. generat[illegible] plete electrical equipment. [illegible] to be upon the 2-unit plan.

ST. TIMOTHEE, QUE.—We [illegible] advised that the Canadian [illegible] Co., of Montreal, has arrange[illegible] White & Co., 43 Exchange Pl[illegible] for the engineering, design and [illegible] involved in the construction [illegible] electric plant on the St. Lawrence River near St. Timothee, Quebec. The old Beauharnois Canal passes around the rapids in the St. Lawrence River at Grand Isle and the Canadian Light & Power Co. has acquired from the Government the right to enlarge, modify and use the Beauharnois Canal for power purposes. Near St. Timothee the canal passes within 2,000 ft. of the river bluff, and here the power station will be located. The available head is about 50 ft. and the water supply is constant the year round. The present initial development provides for 21,000 shaft HP., with such further developments as may be required in the future. The main features of the present initial construction will be as follows: (1) Construction of a canal intake and headgates at Valleyfield about 3,200 ft. below the present intake. (2) Enlargement of the Beauharnois Canal from the intake to the station site, 32,000 ft., to the capacity of the present initial installation. This will be done by dredging from a 10-ft. depth to an 18-ft. depth and building some embankments, and will involve changes in certain railroad and highway bridges and highways. (3) Constructing a forebay at the power station site. The concrete head wall will be of gravity section and about 40 ft. high. The embankments will have a clay puddle core and will average about 30 ft. in height. (4) A power station for four main units and two exciter units. (5) Tailrace excavation for the complete ten units. (6) Transmission line to Montreal. (7) Substation at Montreal. (8) Distribution system in Montreal. Some of the more important quantities involved in the work are as follows: Excavation, 1,243,000 cu. yds.; embankment, 387,000 cu. yds.; concrete, 45,000 cu. yds.; cribwork, 6,000 cu. yds.; transmission line, 27 miles. It is estimated that the present initial development will cost about $4,000,000. The Canadian Light & Power Co. proposes to do this work by contract on the basis of unit prices. J. G. White & Co. are now preparing plans and specifications for the forebay excavation and embankment and power-house and headwall concrete work to be submitted to prospective bidders, and similar plans and specifications for other divisions of the work will follow rapidly.

TORONTO, ONT.—JOHN HAGMEN & CO., of London, Ont., have been awarded contract for the construction of the inter-switching station, and also for the step-up transformer station in connection with the hydro-electric development, at $35,000 and $47,700, respectively.

*TORONTO, ONT.—Bids are asked until Oct. 28 (extension of time) by the city for the following electric motors: Four 1,500 HP. induction motors; four 500 HP. synchronous motors; four 500 HP. induction motors; two 225 HP. synchronous motors; with exciters, switchboards, connecting material, etc. C. H. Rust is City Engr.

## BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

RUMFORD, ME.—The following are the bids opened on Aug. 17 by the Board of Selectmen for constructing the steel superstructure of a bridge over the Androscoggin River: Pennsylvania Steel Co., Pittsburg, $61,865; Penn Bridge Co., Beaver Falls, Pa., $60,484; American Bridge Co., 30 Church St., New York, $58,975; Boston Bridge Works, Boston, Mass., $56,759 (recommended for award). Only one bid was received for the masonry foundation, and was rejected. E. E. Greenwood, of Showhegan, is Engr.

PALMER, MASS.—Contract for the new bridge over the Quaboag River here has been awarded by the State Highway Commission to the WILLIAM N. FLYNT GRANITE CO., of Monson, at $15,5[illegible]. The structure is to take the place of the Hastings Bridge, located in the towns of Palmer and Monson. The new bridge will be wholly within the town of Palmer. Bids were asked for two styles of construction, stone arch and concrete, and the successful company was the only one to submit bids for both styles. The contract was awarded for the stone construction. The bids for the con-

crete bridge were. William N. Flynt Granite Co., $14,866; P. A. Breglio Co., of Springfield, $19,619; George W. Carr Co., of Worcester, $18,781; R. F. Hudson, of Melrose, $15,[illegible]6; George M. Atkins Co., of Palmer, $[illegible]940.

CARTHAGE, N. Y.—T. A. THAYER has secured contract for constructing four cement bridges, located as follows: Two at Champion Huddle, one at Champion Peak, one at Martin St., west of Carthage.

HACKENSACK, N. J.—Bids will be received Sept. 2 by the Committee Board Chosen Freeholders, Hackensack, Thomas Post, Chairman, for constructing a concrete bridge near Brookside Inn, Oakland; also constructing reinforced-concrete floors on the Paramus Bridge over the Saddle River and the Hudson Ave. Bridge over Hohokus Creek, Ridgewood.

DANVILLE, PA.—Bids will be received until Sept. 4 by the County Commissioners, Danville, for constructing two steel bridges with concrete floors.

*PHILADELPHIA, PA.—Bids were received by George R. Stearns, Dir. Pub. Wks., on Aug. 24, for reinforced-concrete arch bridge, 75 ft. 9-in. span, 80 ft. wide, on line of Thomas Ave., over the West Chester & Philadelphia R. R. The bids follow: David Peoples, Betz Bldg., $31,110, no time; Hennebique Construction Co., 1170 Broadway, New York, $28,400, five months; American Paving & Construction Co., $33,900, five months; Barker & Underwood, $32,000, eight months; Cramp & Co., $28,468, six months; John McMenamy, $33,984, ten months; McNichol Paving & Construction Co., $27,414, four months; Joseph Perna, $40,027, no time; McCormick & Co., $30,559, eight months; C. P. Bower Construction Co., $32,613, five months; M. & J. B. McHugh, $22,149, six months, and the Penn Reduction Co., $25,493, four months.

*PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Dept. of Pub. Works, until noon, Sept. 14, for Schedule A, bridges.

EASTON, PA.—Bids will be received by the Commissioners of Northampton County, Easton, until Sept. 14, for the construction of three reinforced-concrete highway bridges.

READING, PA.—Bids will be received by A. L. Rhoads, County Controller, until 10 a. m., Sept. 9, for repairing the Maidencreek bridge. The bridge is a 3-arch stone structure over the Maidencreek, about ½ mile from the Maidencreek Station on the Berks & Lehigh Branch of the P. & R. R. R.

OAKLAND, MD.—Bids will be received until Sept. 7, by the County Commissioners, Oakland, for constructing a low-truss, wrought-iron bridge and concrete abutments, span 53 ft., across Savage River. A. G. Ross is County Clk.

ASHEVILLE, N. C.—The Nashville Bridge Co., Nashville, Tenn., was the lowest bidder on Aug. 17, at $66,495, for construction of reinforced-concrete bridge across French Broad River.

COLUMBUS, GA.—The SOUTHERN BRIDGE Co., of Birmingham, was awarded contract on Aug. 21 by Muscogee and Talbert Counties for constructing a steel bridge across Baker Creek, between the two counties.

JACKSONVILLE FLA.—Profile is on file at the office of Engineering News, New York, for the construction of a steel or concrete bridge over Julington Creek on the St. Augustine road. Bids are asked until Sept. 10. Contractor is required to furnish plans and proposal, the specifications for steel to be standard for highway bridges. Gail L. Barnard is County Engr.

HAZELHURST, MISS.—The Copiah County Board of Supervisors, D. D. McLehany, Pres., will consider plans and probably ask for new bids at a meeting on Sept. 8 for the construction of steel bridge over Pearl River. Bids for this work have been rejected.

GRENADA, MISS.—The Board of Supervisors will receive bids soon for construction of four bridges.

NEW ORLEANS, LA.—The city has awarded contract at $18,000 to the PENN BRIDGE CO., Beaver Falls, Pa., for rebuilding the bascule bridge across Bayou St. John.

MEMPHIS, TENN.—The Park Commissioners have awarded contract to J. A. OMBERG, JR., Memphis, for constructing 19 bridges and culverts in Riverside Park, mostly reinforced-concrete work. Estimated cost, $20,000.

ZANESVILLE, OHIO.—Bids will be received until noon, Sept. 13, by the Board County Commissioners for constructing the steel superstructure of a highway bridge to consist of one span 96½ ft. in length and a roadway 12 ft. wide in the clear over Brush Creek, in Stoverton, Bush Creek Township. L. E. Brelsford is County Audr.

TUSCARAWAS, OHIO.—JOHNSON BROS., Massilon, Ohio, have secured contract at $30,000 for the construction of a bridge over the Tuscarawas River here.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Sept. 8, by the County Commissioners, for the construction of bridge work, per Report No. 2461, c.-i. pipe, culvert, Columbia Road, Olmsted Township.

TOLEDO, OHIO.—Bids, including plans and specifications, will be received until Sept. 18 by the Board County Commissioners for constructing an automatic swing bridge, 14 ft. wide in the clear, with necessary center pier and abutments. D. T. Davies, Jr., is County Audr.

SPRINGFIELD, OHIO.—The HOME ENGINEERING & CONTRACTING CO., Canton, Ohio, has been awarded contract at $7,987, for constructing the superstructure of the Moores Lime Co. bridge.

ALLIANCE, OHIO.—The citizens have voted in favor of issuing $75,000 of bonds to repave Main St., build a viaduct and construct two subways under the Pennsylvania R. R. tracks.

MADISON, IND.—Bids are asked until 1 p. m., Sept. 7, by the County Commissioners, Gaylord F. Crozier, County Audr., for constructing reinforced-concrete girder bridges at the following points: Schuh's Ford, Republican Township, 50-ft. span; Blake's Ford, Graham Township, 40-ft. span; Law's Ford, Saluda Township, 30-ft. span; concrete arch, 35-ft. span, at French's Ford, Lancaster Township.

ATTICA, IND.—The Commissioners of Fountain County, it is stated, have let contract for the construction of the Stockdale Gravel Road in Jackson and Cain Townships to ELBERT McKEE at $7,267.

PEKIN, ILL.—Contract for constructing a 200-ft. steel bridge over Mackinaw River, at Keefer's Ford, in Dillon Township, has been awarded to William NOONEN CONCRETE CO. at $7,089.

LOCKPORT, ILL.—The JOLIET BRIDGE & IRON CO. has been awarded contract by the Commissioners of the Illinois and Michigan Canal for the construction of ten new bridges over the stream. The spans will be constructed at points over the channel from Lockport to Channahon. Cost, about $10,000.

RHINELANDER, WIS.—The Common Council has awarded contract for a 90-ft. span steel bridge across Pelican River at foot of Oneida Ave., to the CENTRAL STATES BRIDGE CO., of Indianapolis, Ind. Cost, $45,000.

CANNON FALLS, MINN.—A. Y. BAYNE & CO., Minneapolis, Minn., have secured contract at $9,010, for removing old Third St. bridge over the Cannon River and constructing a new one in its place.

RED WING, MINN.—Contract for two 45-ft. spans concrete bridge has been let by the city to the ILLINOIS BRIDGE CO., Chicago, at $4,988. A. E. Rhame is City Engr.

LARNED, KAN.—Contract for constructing an 80-ft. reinforced-concrete arch bridge over the Pawnee River on S. Main St., bids opened on Aug. 17, has been awarded by the county to the TOPEKA BRIDGE & IRON CO., of Topeka, at $5,200. James F. Whitney is County Clk.

CONCORDIA, KAN.—The CANTON BRIDGE Co., of Canton, Ohio, has secured contract for constructing three bridges, two of 30 ft. and one of 40 ft, bids opened on Aug. 16. R. A. Short is County Clk.

MISSOULA, MONT.—Bids, plans and specifications will be received at the office of the County Clerk and Recorder of Missoula County until 10 a. m., Sept. 10, for the construction of a combination bridge across the Missoula River near Westfall Spur, on the Coeur d'Alene branch of the Northern Pacific Ry., said bridge to consist of two spans of 200 ft. each with a 16-ft. roadway covered with 3-in. plank, floor of bridge to be 10 ft. above high water mark of 1908; truss timber to be Oregon fir, the balance to be native pine; center pier to be tubular or crib; end piers to be crib or piles; all wood material for use of cribs and piles; also filling of piers with rock, to be furnished by the county. F. W. Kuphal is County Clk.

KANSAS CITY, MO.—The A. M. BLODGETT CONSTRUCTION CO., Commerce Bldg., Kansas City, has secured contract for constructing the Lydia Ave. viaduct at about $60,000. Kenneth Hartley is Engr., 1500 Grand Ave., Kansas City.

LAWTON, OKLA.—The MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., has been awarded contract at $12,179 for constructing nine steel bridges near here.

TULSA, OKLA.—The County Commissioners on Aug. 9 are stated to have awarded contracts for constructing bridges as follows: To the CANTON BRIDGE CO., of Canton, Ohio, at $54,900, for two bridges over Pole Cat Creek, in the southern part of the county, one across the Arkansas River at Jenks, and the fourth bridge on the Creek County line. Other bidders were: Illinois Steel Co., $58,330; Wichita Construction Co., $61,700; Central States Bridge Co., of Indianapolis, Ind., $64,600.

TRINIDAD, COLO.—JOHN A. LAUGHLIN has secured contract for constructing five cement bridges over the intake ditch of the Model Land & Irrigation Co. The structures are to have 40-ft. spans and 16-ft. roadways.

CENTRALIA, WASH.—The contract for three concrete bridges across China ditch has been let to CHARLES G. SHEELY CO., McPhee Bldg., Denver, Colo., at $6,970.

ROSS, CAL.—Contract has been awarded by the Town Board to GLANN & HOUGHTON, of Corte Madera, for the construction of five concrete bridges at $11,900.

RED BLUFF, CAL.—Bids will be received by the Board of Supervisors of Tehama County until 10 a. m., Sept. 7, for the construction of a steel bridge across Tomes Creek near Richfield Station, extreme length of bridge being 477 ft., consisting of five 80-ft. low truss steel spans situated in road district No. 5. H. G. Kuhn is Clk.

MOOSE JAW, SASK.—The PARSONS CONSTRUCTION & ENGINEERING CO., Regina, Sask., has been awarded contract, bids opened on Aug. 9, by the Board of Works, at $7,500, for the construction of a 50-ft. span reinforced-concrete bridge, including material, labor and piling for foundations.

## BUILDINGS.

HINGHAM, MASS.—No bids were received in answer to advertisement on Aug. 28, by the bureau of Yards and Docks, Navy Department, Washington, for the construction of Marine Barracks at the Naval Magazine, Hingham, Mass.

STORRS (Eagleville post-office), CONN.—Competitive plans for a dining-hall and four cottages at the Connecticut Agricultural College, Storrs, for which the Legislature has made an appropriation, will be received by D. Bradstreet, State Comptroller, Capitol, Hartford, Conn., until noon, Sept. 21.

NEW YORK, N. Y.—We are officially advised that bids are being received by D'Oench & Yost, Archs., 289 Fourth Ave., for a 6-story loft building, 50 × 100 ft. Estimated cost, $50,000. L. T. Alton, 1418 Broadway, is owner.

NEW YORK, N. Y.—Plans have been filed for a 9-story apartment house with 20 suites of rooms and to be built at a cost of $150,000 for the Fullerton Weaver Realty Co. on 116 to 120 West 58th St. It will have a frontage of 87 ft. and a depth of 85.1 ft.

Plans have been prepared by George Fred Pelham, Arch., 507 Fifth Ave., for the improvement of the southwest corner of St. Nicholas Ave. and 183d St. with a 6-story apartment house, 104x150 ft., to cost about $200,000. The NAPOLEON CONSTRUCTION CO., 209 Broadway, will erect the building, and are ready for figures on various contracts. Aaron M. Janpole is Pres. and Louis Werner, Secy.

Plans for a 30-story office and store building to be erected on the site of the old Hotel Metropole at the southwest corner of Broadway and 42d St., on a plot owned by the estate of Charles A. Coe, have been filed by Henry Ives Cobb, 42 Broadway, Arch., for the 1465 Broadway Co. The building will be a tower rising 410 ft. above the curb. It will be of the modified gothic design and adorned with pinnacles. It will front 51.3 ft. on Broadway, 49.4 ft. on Seventh Ave. and 86.2½ ft. on 42d St. and will have facades of brick trimmed with terra cotta and ornamental iron. There will be a basement and sub-basement. The architect's design provides for a tower 37 × 35 ft. The building is to cost $800,000.

NEW YORK, N. Y.—Plans have been filed for a 6-story apartment house, to contain apartments for 57 families and to be built at a cost of $150,000, in 119th St., east of Amsterdam Ave., for the Ira Realty Co. from designs by Sommerfeld & Steckler, Archs., 19 Union Sq., W.

Louis C. Maurer, Arch., 1495 Broadway, is preparing plans and will be ready for estimates by Sept. 15 for two 6-story brick and stone warehouses, 50 × 100 and 33 × 100 ft., containing electric elevators, plastic slate roofs, to be erected at 56-62 North Moore St. and 178-180 Franklin St., at a total cost of $120,000. Uhlfelder & Weinberg, 132 Nassau St., are the owners. No contracts have been let.

James Ames, Kingsbridge, N. Y., will soon begin the erection of a fireproof 5-story brick and terra cotta storage warehouse, 49 × 65 ft., on the east side of Kingsbridge Ave., 140 ft. south of 236th St., the Bronx. Plans are now being completed by Schaefer & Jaeger, 461 Tremont Ave., The Bronx.

Philip Braender, 143 West 125th St., is preparing for the improvement of the Ashland House property, at the southeast corner of 24th St. and Fourth Ave., with a 20-story loft and office building costing about $1,000,000. He bought the premises a few months ago through M. & L. Hess. The plans will not be carried out, it is said, until the leases on the property expire.

Lawlor & Haase, Archs., 69 Wall St., have completed plans for an 8-story elevator apartment house, measuring 77 × 78.9 ft., to be erected in the north side of 35th St., 145.4 ft. east of Lexington Ave. The Poterfield Construction Co., 50 Church St., will erect the building. Estimated cost, about $275,000.

The site at the northwest corner of Madison Ave. and 38th St. is cleared and excavating will be undertaken immediately for the proposed 20-story office and loft building which Frederick Johnson is to erect from plans by Buchman & Fox, Archs., 11 East 59th St., costing between $650,000 and $700,000.

Schwartz & Gross, Archs., 347 Fifth Ave., have filed plans with the Tenement House Department for two 12-story elevator apartment houses to be constructed by Paterno Bros., on Riverside Drive, east side, 107.6 ft. north of 116th St., to cost in the neighborhood of $600,000.

Architects for the Pocono Realty & Building Co. have filed revised plans for the 18-story building to be built for the American Woolen Co. at the northeast corner of Fourth Ave. and 18th St., on the site of the old Hotel Florence, which provides for a height of 232 ft. instead of 267 ft., as originally projected, and an amended cost of $1,800,000 in place of $1,865,000, as originally planned. Cutting 33 ft. from the height saves $65,000. The building will have a frontage of 218 ft. on 18th St. and 102 ft. on the avenue. The old Parker Building, rebuilt, will be made an annex to it.

Plans for the new building for the North Side Board of Trade in the Bronx, to be erected at Lincoln and Third Aves. and 137th St., will be put out for bids at once. As planned by Albert E. Davis, Arch., 258 East 138th St., the building will contain offices and a hall and gallery, to seat about 1,200 people, and a bank on the first story. There will be three stories and the building will have ground dimensions of 40 × 175 ft. The materials will be granite, light brick and terra cotta. The cost is placed at about $100,000. Mr. J. Clarence Davies is a member of the Building Committee.

CORTLAND, N. Y.—Work on St. Mary's Roman Catholic Church, to be erected at Cortland, at a cost of $100,000 will be begun at once. William P. Cinter, of Akron, Ohio, is Arch. Rev. Father P. Donohoe is Pastor. The material of which the church will be constructed will be of gray Gouverneur granite.

BRADLEY BEACH, N. J.—Bids will be received by the Board of Education, Bradley Beach, N. J., until Sept. 7, for the erection and for the heating and ventilating of a new 12-room brick school building with an assembly room. Clarence W. Brazer, 1133 Broadway, New York, or 504 Fifth Ave., Asbury Park, N. J., is Arch.

TRENTON, N. J.—The contract for the erection of the American Mechanic building at 137 East State St. has been awarded to JAMES W. LANNING. The building will cost $190,127, according to the contract filed in the office of the County Clerk. Work has been commenced and it is agreed that two stores on the first floor shall be completed by the first of next April. Mr. Lanning has agreed to have the building completed by Sept. 1, 1910.

PHILADELPHIA, PA.—A permit has been granted to Edward Atkins for the addition to be built to the Western Savings Fund Building, at 1008-10-12 Walnut St. It will be a granite, fireproof clere-story structure, 65 × 120 ft. to cost $150,000.

The Bureau of Building Inspection has issued a permit to DOYLE & CO., 159 Sansom St., for the 10-story publishing house which is to be built at the northeast corner of Sixth and Walnut Sts. for the Curtis Publishing Co. The building will occupy the whole of the Sixth St. front, from Walnut to Sansom Sts., a distance of about 236 ft., and will extend in depth on Walnut and Sansom Sts. a distance of about 200 ft. The cost of the building is estimated in the application for a permit filed by Doyle & Co. at $1,750,000. A permit has been obtained for the 10-story power plant which will adjoin the publishing house on Sansom St. The cost of the power plant will be $500,000. Excavation for the foundations of both buildings has been carried on for the last two months.

PHILADELPHIA, PA.—We are officially advised that plans are being prepared by F. Russell Stuckert, Arch., 1421 Chestnut St., and will be ready for estimates about Sept. 15, for the erection of a 2-story garage and restaurant building at 242-48 North Broad St., for the Horn & Hardart Baking Co., 78 × 190 ft., and will cost about $50,000.

PARIS, KY.—Bids were received as follows on Aug. 30, by James Knox Taylor, Superv. Arch. of the Treasury Department, Washington, D. C., for the construction of a post-office at Paris, Ky.: Habelton & Walin, Chicago, $47,543; King Lumber Co., Charlottesville, Va., $43,700; D. J. Phipps, Newport News, Va., $46,250; John G. Unkefer, Minerva, Ohio, $43,654; John A. Carter Co., Philadelphia, $50,970; Fandrer & Driscoll, Canastota, N. Y., $40,903.

PITTSTON, PA.—Press reports state that CURTIS & CO., of Wilkes-Barre, Pa., have been awarded the contract for the erection of the People's Union Savings Bank, at the corner of Main and Water Sts. The firm is under contract to have the bank building completed and ready for occupancy by March 15, 1910. Work will be started on the excavations at once. The exterior of the building will be of classical style, with four columns at the front. The general dimensions are 45 ft. on Main St. by 66 ft. on Water St. The building will be one story high, but the general effect will be that of a 3-story building. The base of the walls will be of polished granite and the walls from the Main St. will be of Indiana limestone.

PITTSBURG, PA.—F. J. Osterling, Arch., 316 Fourth Ave., is receiving bids for the proposed dining room and kitchen building to be built at Dixmont Hospital at a cost of $100,000. The structure, which will be fireproof, has three stories and will measure 80 x 300 ft. The end of the building will be connected to the main institution by bridges. The ground floor of the building will be used for refrigeration purposes, supply house, receiving rooms, storage, and here the bathrooms will be built. The second floor will be used as a general dining room, the third exclusively as employes' apartments. The addition of this new building will increase the capacity and afford more room to the hospital in a general way.

According to the Pittsburg "Post," the Pennsylvania R. R. Co. has abandoned its plans for the proposed $2,000,000 freight terminal along the Ft. Wayne elevated tracks between Federal and Anderson Sts., Northside, and is securing options on the necessary property for freight station and warehouse at the Northside end of the Ft. Wayne bridge across the Allegheny River. Engineers are now working on the plans, estimating the cost in the neighborhood of $3,500,000, including property. The Northside terminal will be similar to the Point freight terminal on this side of the river, which was built for about $4,000,000. The Northside terminal will cover two squares and will extend from Church Ave. to Washington St. and from Cedar Ave. on the west to Madison Ave. on the east. Thomas Rodd is Ch. Engr., Pittsburg.

SCRANTON, PA.—The contract for the $45,000 Nurses' Home, to be built in connection with the State Hospital at Scranton, has been awarded to PETER STIPP, of this city.

WASHINGTON, D. C.—Bids are asked by Frank Pierce, Acting Secy., Dept. of the Interior, Washington, until 2 p. m., Oct. 4, for the construction of an additional wing to the Freedmen's Hospital at Washington, D. C.

Bids were received as follows on Aug. 27, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the alterations to the fourth floor of the Treasury Building in Washington: Boyle Robertson Co., Washington, $39,156; Henry Smith Sons & Co., Baltimore, $38,750; Charles McCaul Co., Philadelphia, $32,700; William P. Lipscomb & Co., Washington, $42,533; Jas. J. Parsons, Washington, $46,590; W. H. McCray, Washington, $40,500; Norcross Bros. Co., Worcester, Mass., $24,930.

*FREDERICKSBURG, VA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 4, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Fredericksburg, Va.

NORFOLK, VA.—Harry K. Wolcott and Hugh M. Kerr, Receivers of the Norfolk & Southern Ry. Co., have awarded the contract for the Norfolk & Southern's freight warehouse on Water St. to the RICHARDSON CONSTRUCTION CO., the lowest bidder, at $65,762. The contract for the proposed new office building adjoining the warehouse has been withheld, as the result of

negotiations by which it is expected that the Norfolk & Southern will join the Virginian Railway and the Norfolk & Western Ry. in the erection of an 8-story office building on East Main St. for joint use by the three railways mentioned. Details as to this are still being worked out. E. T. Lamb is Gen. Mgr. of the Norfolk & Southern. Other bidders for the Norfolk & Southern's freight warehouse were as follows: Myers-Turpin Construction Co., $65,789; McLean Construction Co., $80,000; S. J. Williams & Co., $85,000; George T. Banks, $68,918; Sanford & Brooks, $77,500.

*PADUCAH, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Sept. 30, for the extension, remodeling, etc., of the U. S. post-office and court-house at Paducah, Ky.

BOWLING GREEN, KY.—CHRIS KANSLER & SON, of Evansville, Ind., have been awarded a contract to construct a Federal building at Bowling Green, Ky., at a cost of $112,000. Local brick manufacturers will furnish the brick. A complete list of bids was given on Aug. 12.

LANCASTER, OHIO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 6, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Lancaster, Ohio.

MICHIGAN CITY, IND.—The Michigan City Board of Education has awarded the contract to HENRY KOELLN, of this city, for the erection of a high school building, to cost $67,369.

FORT WAYNE, IND.—Bids are asked by the Commissioners of Allen County until 10 a. m., Sept. 4, for the construction of a storage house for county property. G. W. Lindemuth is County Audr.

Mahurin & Mahurin, Archs., are asking for bids for the construction of the proposed St. Patrick's Church lyceum. The structure will be of brick, two stories high, 54 × 130 ft., with basement finished for gymnasium, bowling alley, billiards, etc.

CHICAGO, ILL.—A new pathological hospital, with building and endowment covered by a gift of $250,000, is to be erected as a memorial to Nelson Morris through funds conveyed by Mrs. Morris to the directors of the Michael Reese Hospital. The new building will be directly across Lake Park Ave. from the present hospital, and will be a part of the Michael Reese equipment. Plans now are being drawn by Richard Schmidt, Arch., 172 Washington St.

The Brage Club, No. 2, Independent Order of Vikings, will build a clubhouse at Sheffield Ave. and School St. The building will include club rooms, gymnasium, billiard rooms and bowling alleys. It will be three stories high and will front 50 ft. with a depth of 115 ft. It will cost $50,000. Plans for the clubhouse have been prepared by A. E. Norman.

The contract has been awarded to EDWARD S. SCHIEDENHELM and construction is about to be commenced upon the 8-story mercantile building which M. L. Rothschild will build at 246 and 248 State St., adjoining his 8-story building at the southwest corner of State St. and Jackson Boulevard. The building will be erected by Miss Katherine S. Isham for Mr. Rothschild, who has taken a lease of it for 25 years on a valuation of about $500,000 for the land and $300,000 for the building. The land fronts 47 ft. and has a depth of 100 ft. The building will cover the entire area. It is the intention to have the structure completed by Dec. 1. Plans for the building were prepared by Holabird & Roach, Archs., Monadnock Block.

MILWAUKEE, WIS.—Henry C. Hengels, Architect, 702 Grand Ave., Milwaukee, is preparing plans for a $100,000 theater, store and office building to be erected for Sylvester Wabiszewski at First Ave. and Mitchell St., Milwaukee. The structure will be 60 × 135 ft., 4 stories high, of reinforced-concrete construction with terra cotta trimmings and pressed brick facings. The architect will be ready for bids at once.

The Board of Public Works has accepted plans of H. Messmer & Sons, Archs., Pabst Theater Bldg., for a new central fire station and engine house at Broadway and Martin St., to cost $75,000. Bids will be called for within two weeks. According to plans, the building will be 85 × 120 ft., three stories high, with tower to make 4½ stories. First floor will be of Bedford and sandstone; upper floors of vitrified brick on steel skeleton, with sandstone trimmings. It will have Mansard roof, green enameled tiling, steel ceilings and enameled walls. Charles J. Poetsch is City Engr.; Thomas A. Clancy, Ch. Engr., Milwaukee Fire Dept.

The Pfister & Vogel Leather Co., Milwaukee, is having tentative plans prepared for a 9-story office building to be erected near its plant, First Ave. and Florida St., not earlier than spring of 1910. Cost, $350,000.

Stanley F. Kadow, Arch., 208 Howell Ave., Milwaukee, has awarded general contract for the proposed $46,000 storage house for the Clear Ice Co., at Wine St. and C. & N. W. R. R. tracks, to ALBERT KROENING, general contractor, 623 Greenfield Ave.

Committee on Buildings and Grounds, Milwaukee County Board, awarded following contracts for the $80,000 Juvenile Court and Detention Home Building to be erected at Galena and Eleventh Sts.: Carpenter, C. A. KLEPPE, $10,794; cut stone, PETER SCHMIDT & CO., $8,140; heating, DOWNEY & KRUSE CO., $9,904; steel and ornamental iron, C. HENNECKE CO., $1,289; plastering, ERNST JAHN, $3,236; painting, H. WEDEN & SON, $1,508; plumbing, S. Y. HANLEY, $5,915; mason work, NORTHERN CONSTRUCTION CO., $20,000; elevator, S. HELLER ELEVATOR CO., $1,675. Dimensions, 60 × 120 ft., three stories high. Brust & Phillip, Camp Bldg., are Archs.

WAUSAU, WIS.—The Board of Public Works has issued a call for competitive plans for a city hall, to cost about $65,000 to $75,000.

KENOSHA, WIS.—The Board of Public Works has issued a call to architects to prepare competitive plans and specifications for a new city hall. Plans will be received until Sept. 15. The council plans to build the foundation in the coming fall and the superstructure next spring. J. B. Scholey is Mayor.

W. Max Dunning, Arch., 167 Dearborn St., Chicago, Ill., has submitted plans and specifications to the Board of Trustees of the Kenosha Hospital Association for a $75,000 hospital building to replace present structure. It will be four stories high, of steel skeleton and pressed brick construction, with terra cotta trimmings. Smith, Gardiner & Martin are Consult. Archs.

MADISON, WIS.—The Board of Regents, University of Wisconsin, has awarded the contract for constructing heating tunnels, conduits, etc., from the university heating plant to Main and Agricultural halls to NICHOLAS QUINN, Madison, Wis. The equipment contract has been awarded to MUELLER FURNACE CO., 197 Reed St., Milwaukee, Wis. Cost, $50,000.

DES MOINES, IOWA.—COLLINS BROS., of Rock Island, Ill., have been awarded the contract for the construction of the Merchants Transfer & Storage Co.'s 7-story concrete warehouse to be erected at West Ninth and Mulberry Sts. by Jesse Wells, Pres. of the L. J. Wells Livery Co. The building is to cost $93,000. The foundation of the mammoth warehouse will be laid as soon as the old livery barn is removed from the corner. It is probable that only five stories can be built before freezing weather, but if the weather permits seven stories will be constructed. Eleven bids were received by Wetherell & Gage, Archs. The following bids were submitted: Collins Bros., $93,000; Gray Construction Co., St. Louis, Mo., $143,700; Warren Construction Co., $136,000; William Adams Co., $150,252; J. C. Mardis Co., $144,975; Rudolph Blome Co., $143,500; Hilger & Co., $133,500; Paul Reisen Sons, $129,973; Charles Weitz Sons, $135,200; Ferro Concrete Construction Co., $138,555; A. & S. Wilson Co., $177,500.

STILLWATER, MINN.—We are officially advised that the State Board of Control, P. M. Ringdal, Chn., St. Paul, will soon receive bids for the construction of the following buildings at the state prison at Stillwater, Minn.: Chapel, guard house and enclosure walls, service building, hospital, administration building and cell houses. Cost, $1,500,000. C. H. Johnston, Manhattan Bldg., St. Paul, is Arch.

DULUTH, MINN.—The Minneapolis, St. Paul & Saulte Ste. Marie Ry. has awarded a contract to GEORGE H. LOUNSBERRY, a local contractor, for the construction of its proposed passenger station in this city. The estimated cost is $100,000. The location is on Superior St., between Sixth and Seventh Aves., West. A tunnel approach of several blocks is being built. Thomas Green is Ch. Engr., Minneapolis, Minn.

FORT ROBINSON, NEB.—Bids are asked until 11 a. m., Sept. 6, by the Constructing Quartermaster, Fort Robinson, for the construction, heating, plumbing, and electric wiring and fixtures for one hospital-sergeants' quarters and one fire station, also for addition to water and sewer mains to connect same with post system.

LARAMIE, WYO.—Bids are asked by the Board of Trustees of the University of Wyoming until noon, Sept. 7, for constructing a Normal School building for the State University. Wm. Dubois, Cheyenne, Wyo., is Arch.; F. S. Burrage is Secy. Bd. Trustees.

HELENA, MONT.—Bids are asked until noon, Sept. 7, by the State Board of Examiners for furnishing all labor, materials and equipment necessary to properly complete the building of concrete foundations, in accordance with the plans and specifications, for the additions to the state capitol building, at Helena, Mont., adjoining the present building on the east and west ends. Haire & Link, Power Block, Helena, are Archs.

ST. LOUIS, MO.—The Board of Public Improvements has awarded the contract for the building of the new additions to the City Hospital to the KELLERMANN CONTRACTING CO., Roe Bldg., St. Louis, for $729,000, or about $71,000 below the estimate. Following are the bids received: Kellermann Contracting Co., $729,000; Charles O. A. Brunk, $737,000; Fred Boeke, $739,750; Pelligreen Construction & Investment Co., $743,000; Hoosac Building & Construction Co., $748,784; E. O. Stringer Construction Co., $749,461; Murch Bros. Construction Co., $749,975; Hartman Bricklaying & Construction Co., $750,000; Fruin-Colnon Contracting Co., $764,389; M. Eyssell Construction Co., $765,003; Hiram Lloyd Building & Construction Co., $767,927; Hill-O'Meara Construction Co., $793,937; Althaus Construction Co., $799,247.

BEAUMONT, TEX.—The contract has been let for the construction of the Gulf Pipe Line Co.'s office building, to be erected on the corner of Orleans and Fannin Sts. at a cost of about $40,000. WEBER & THAMES were awarded the contract and will begin construction at once and expect to have the building completed by Jan. 1, although the contract requires the building to be completed by Feb. 1, 1910. This structure is to be of brick and three stories high.

OKLAHOMA CITY, OKLA.—The INTERSTATE CONSTRUCTION CO., of Mobile, Ala., has secured the contract to erect the proposed 5-story Baum building to be erected at Grand and Robinson Sts. Estimated cost, $140,000.

TACOMA, WASH.—The Tacoma Commercial Club and the Weyerhaeuser Timber Co. will erect a 10-story office building to cost $350,000, on the northeast corner of South Eleventh and A Sts. H. P. School is to furnish the building stone for the structure.

FORT WORDEN (Port Townsend post-office), WASH.—Bids are asked by Capt. E. C. Long, Constr. Q. M., 482 Arcade Annex, Seattle, Wash., until 11 a. m., Sept. 16, for the construction, plumbing, heating, electric wiring, and fixtures of an addition to post hospital at Fort Worden, Wash.

SPOKANE, WASH.—A. L. Lundquist plans to erect an apartment house at the southeast corner of Eighth Ave. and Adams St. The structure will cost about $120,000.

At approximately $1,000,000 the contract for the Old National Bank's 14-story building has been awarded to the THOMPSON-STARRETT CO., 49 Wall St., New York, and Bush and Kearney Sts., San Francisco.

IMPERIAL, CAL.—H. H. PETERSON has been awarded contract for new Union High School building at $43,330 at Imperial. Noted last week.

LOS ANGELES, CAL.—Contracts have been awarded to RICHARDS-NEUSTADT CONSTRUCTION CO., Stimson Bldg., for the concrete work on the proposed 6-story hotel building which is being erected at Los Angeles and Fifth Sts., for T. A. Fry, of Hollywood. Work on the concrete footings has been started, the retaining walls and underpining for adjoining buildings having been put in some time ago. Arthur R. Kelly, Arch. for the building, has prepared plans for a fireproof structure of reinforced concrete. The estimated cost of the building is $175,000, and it is expected that the hotel will be opened late in February. There will be 215 sleeping rooms in addition to the four stores, dining room, lobby and kitchen on the first floor.

## WATER SUPPLY—IRRIGATION.

GARDNER, MASS.—We are officially advised that contract was awarded on Aug. 27 to the CANTON BOILER & ENGINEERING CO., of Canton, Ohio, for constructing and erecting a steel standpipe at Gardner State Colony, at $6,808. Other bidders were: Tippett & Wood, Phillipsburg, N. J., $6,990; Chicago Bridge & Iron Works, Chicago, Ill., $7,130; Des Moines Bridge & Iron Co., Pittsburg, Pa., $7,165; Hodge Boiler Co., Boston, Mass., $7,395; Walsh's Holyoke Steam Boiler Works, Holyoke, Mass., $7,993; F. A. Houdlette, Boston, Mass., $8,685; Simpson Bros., Boston, Mass. (reinforced-concrete elevated tank), $10,967. H. K. Barrows is Engr., 6 Beacon St., Boston.

MEDFIELD, MASS.—Contract for enlargement of filter beds at the Medfield Insane Asylum has been awarded to MICHAEL LITTLE & CO., Leominster, at $9,375.

EASTHAMPTON, MASS.—The GEORGE W. CARR CO., 20 Hancock St., Worcester, Mass., has been awarded contract to build the concrete work for the Easthampton water-works, where the storage and settling tanks are being increased from a capacity of 600,000 to 2,000,000 gallons.

BOSTON, MASS.—Contract for laying 8,100 lin. ft. of c.-i. water pipe, bids opened on Aug. 16, has been awarded by the city to CHARLES J. JACOBS CO., 107 Terrace St., Boston. Dexter Brackett, is Ch. Engr. W.-Wks.

*PROVIDENCE, R. I.—Bids were opened on July 27 by the Board of Contract and Supply for furnishing and erecting complete at the city's water-works, high service pumping station, corner Olney St. and Brown St., Providence, a 10,000,000-gal. pumping engine to be placed in the space now occupied by the Nagle pumping engine. Mayor Henry Fletcher, Chn. Bd. Contract has been awarded to HENRY R. WORTHINGTON, 115 Broadway, New York, at $24,000. List of bidders noted on Aug. 12.

NEW BRIGHTON (S. I.), N. Y.—Bids were opened on Aug 18 as follows by the Bureau of Water Supply, Gas and Electricity for furnishing, delivering and laying water mains in Bay, Griffin and other streets in Richmond Borough: Clinton Beckwith, Herkimer, N. Y., $219,663; Daly Bros. Contracting Co., 145th St. and Harlem River, New York, $219,881; Joseph Johnson Sons, Staten Island, $259,857; Rodgers & Hagerty, 41 Park Row, New York, $220,760; James H. Holmes, Brooklyn, $218,855; Newman & Carey, Brooklyn, $235,936; Harlem River Contracting Co., 21 Park Row, New York, $229,516; MacArthur Bros., 11 Pine St., New York, $409,487; James King, Brooklyn, $234,087; Cuozzo & Co., 63 Park Row, New York, $236,768; Hanover Contracting Co., 215 W. 125th St., New York, $212,168. John H. O'Brien is Comr.

Bids were opened by John H. O'Brien, Comr. Water Supply, Gas and Electricity, on Aug. 18, for furnishing and delivering (a) c.-i. pipe and (b) special castings, for Richmond Boro.: John Fox Co., 253 Broadway, New York, (a) $23.20, (b) $47.50; M. J. Drummond, New York, (a) $24.70, (b) $47.70; U. S. Cast-Iron Pipe & Foundry Co., New York, (a) $23.30, (b) $47.50.

LONG ISLAND CITY, N. Y.—Bids were opened as follows on Aug. 18 at the office of the Bureau of Water Supply, Gas and Electricity for furnishing and connecting two pumping engines with steam piping, etc., at Bayside pumping station, Borough of Queens: Henry R. Worthington, 115 Broadway, New York, $29,700; Henry E. Fox, New York, $46,000.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Sept. 9, for furnishing and delivering 4,000 lin. ft. of 6-in. c.-i. water pipe for parks (Botanical Garden), Borough the Bronx.

NEW YORK, N. Y.—Contract has been awarded to the ATLANTA CONTRACTING CO., 434 East 91st St., by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for high pressure fire service mains and appurtenances in several streets.

The Lord Electric Co., 215 East 40th St., New York, has submitted the lowest bid to the Board of Water Supply for Contract 39, for furnishing and installing two 12,500,000-gallon steam turbo-turbine pumps, two 225-HP. water-tube boilers, and all accessories, at Jerome Ave. pumping station, Boro. The Bronx, New York, at $36,100.

WEST CARTHAGE (Carthage post-office), N. Y.—CHARLES LEWIS, [illegible], N. Y., has received contract, at $8,[illegible], for the construction of a conduit system of water-works from Vrooman Springs to West Carthage.

*BINGHAMTON, N. Y.—[illegible] were opened by T. E. McGarr, Secy. [illegible] Comm. in Lunacy, Albany, on Aug. [illegible] for extension of water supply system at [illegible]hamton State Hospital. The lowest bid was that of R. T. Ford Co., of Rochester, at $[illegible]. The lowest bid for steam and return [illegible]ains and re-building trestle at the hospital was that of H. C. Peterson & Co., of [illegible] at $24,738. Franklin B. Ware is State [illegible] Albany.

LANCASTER, PA.—We are officially advised that bids were received by the Water Committee, City Council, at the office of J. H. Rathfon, City Controller, Aug. 26 as follows for constructing concrete dam across Conestoga River at pumping station of Lancaster water-works in Manheim Township: Hawman Bros., $9,644, 150 days; C. S. W. Chiles, $8,275, 60 days; G. [illegible] Rockwell, $9,321, 60 days; Myers & Mc[illegible]am, $6,347, 60 days; T. W. Reilly, $12,[illegible]0 days; J. N. H. Cornell & Co., $6,719 [illegible] days; engineer's estimate, $10,304, 6[illegible]ys. F. H. Shaw, 314 Breneman Bldg., Lancaster, is Engr.

*WASHINGTON, D. C.—Bids are asked until noon, Sept. 11, by the District Commissioners, for curb and corporation cocks.

CANTON, N. C.—We are officially advised that the town on Aug. 23 let contract to M. H. KELLY, of Asheville, N. C., for the construction of a gravity water line to connect with its present water system at $29,334. J. M. Curtiss is Mayor. Lucien Buck is Chief Engr.

MADISON, FLA.—The city has awarded contract to H. A. JAUDON, Savannah, Ga., for a water-works system. Estimated cost, $30,000.

DOTHAN, ALA.—The city has voted $6,000 of bonds for extension of the water-works system.

NEW ORLEANS, LA.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m. Sept. 25, for constructing one 50,000 and one 20,000-gallon water tank at the naval station here. William M. Smith is Acting Ch. of Bureau. Specifications are on file at office of Engineering News, New York.

CHEVIOT (Cincinnati post-office), OHIO.—Bids will be received by Charles Craig, Village Recdr., until noon, Sept. 6, for laying 6-in. water pipe, setting fire hydrants, valves and special castings in Trevor Ave., from Woodbine Ave. to the north corporation line of the village.

NEWARK, OHIO.—Bids will be received by Albert C. Gundlach, Clk. Bd. Pub. Serv., until noon, Sept. 2, for the construction of an infiltration intake for the municipal water-works system. M. M. Taylor is Pres.

EAST LIVERPOOL, OHIO.—The Board of Public Service has rejected bids as excessive for the construction of a system of mechanical filters, reinforced-concrete subsiding basin, laying c.-i. water pipe, etc. John W. Hill & Sons are Engrs., 500 First National Bank Bldg., Cincinnati.

HAMMOND, IND.—The Board of Public Works has let contract to WILLIAM KLEIHEVE for laying ¾-in. lead water service pipe connections in Ada St., from May to Carroll Sts., and in Detroit St., from State line to Lyman St. Adam R. Ebert is Pres.

DETROIT, MICH.—Bids will be received until Sept. 14 by the Board of Water Commissioners, Benj. F. Guiney, Secy., for laying a 12-in. c.-i. water pipe under the Detroit River from Water-Works Park to Belle Isle Park.

HAWLEY, MINN.—See item under Light and Power Plants.

BAUDETTE, MINN.—J. G. ROBERTSON, St. Paul, and W. C. FRAYER, Rochester, Minn., have been awarded contract for constructing water-works and sewers here.

SHAKOPEE, MINN.—Bids are asked by Alexander Schaefer, Town Clk., until 8 p. m., Sept. 13, for the installation of a water main extension here, about 2,800 ft. of pipe to be laid.

DETROIT, MINN.—See item under Light and Power Plants.

OSAGE CITY, KAN.—The FREEBORN ENGINEERING & CONSTRUCTION CO., Scarritt Bldg., Kansas City, Mo., has secured contract for constructing water-works here, at $30,500. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

ELKHORN, NEB.—Contract for constructing water-works, bids opened on Aug. 14, has been awarded to the NATIONAL CO., of South Bend., Ind., at $8,450. Louis Brickendorfer, Bee Bldg., Omaha, is Engr.

GRAND FORKS, N. DAK.—Bids will be received until Sept. 6 by the City Council for constructing water mains in Fifth, South Sixth and Third Sts., Elm and Fourth Aves. W. W. Alexander is City Audr.

BOTTINEAU, N. DAK.—Bids will be received by C. P. Telle, City Audr., until Sept. 4, for constructing a steel water tower and tank, drilling well for water supply, constructing pump house and installing pumping machinery, complete, and for constructing a water main distribution system in water main district No. 1, requiring 2,400 ft. 8-in. pipe in Fifth St., 1,900 ft. 6-in. c.-i. pipe in Thompson St., and 2,000 ft. 6-in. c.-i. pipe in Main St., 13 hydrants, 7 8-in. and 3 6-in. gates, T's, etc. Samuel F. Crabbe is Engr., Fargo.

FARGO, N. DAK.—C. H. PORRITT was awarded contract on Aug. 23 by City Council for water main extensions in the following streets, at $1.34 per ft. and $61 per hydrant: 14th St. South, from Front to First Ave. South; First St. North, from Fifth St. to Sixth Ave.; Roberts St., from Third to Fourth Aves.

MAUD, OKLA.—Bids were opened by the Town Clerk on Aug. 14 for two gasoline engines, two triplex power pumps, one 30,000-gallon steel tank on steel tower, one mile of 6-in. c.-i. water pipe, with hydrants, valves, etc. Contract has been awarded to LOWREY, of Maud. M. A. Earl & H. S. Co., of Muskogee, are Engrs.

FORT LOGAN, COLO.—Bids will be received until Sept. 22 by the Constructing Quartermaster, U. S. A., for remodeling the pumping plant here, to be equipped for either steam or electricity.

ARVADA, COLO.—The citizens on Aug. 17 voted in favor of constructing a municipal water plant, cost not to exceed $40,000.

FORT STEVENS, ORE.—Bids will be received by the Constructing Quartermaster, U. S. Army, Fort Stevens, until 2 p. m., Sept. 7, for sinking three 6-in. wells at this post.

PORTLAND, ORE.—JOSEPH SIMON, of Portland, was awarded contract on Aug. 18 by the city for laying a water main on Everett St., at $4,327, the lowest of four bids submitted.

LOS ANGELES, CAL.—Bids will be received by the Board of Water Commissioners until 3:30 p. m., Sept. 7, for approximately 1,632 ft. of riveted sheet steel pipe, and also for approximately 6,400 ft. of sheet steel pipe. John J. May, Jr., is Pres.

SAN DIEGO, CAL.—BROWN, MARSHALL & GALLAGHER were awarded the contract for additional work on the storage basin of the University Heights reservoir, by the Common Council on Aug. 19, at $6,609.

OGDEN, UTAH.—For the purpose of extending the canal of the Western Irrigation Co., a company has been formed and articles of incorporation for the North Branch of the Western Irrigation Co. were filed with the County Clerk on Aug. 21. The officers are: E. D. Rawson, Pres.; Charles Larkin, Secy. and Treas. The new company is capitalized at $10,000.

MONTREAL, QUE.—Bids will be received by the Chairman of the Board of Control until noon, Oct. 5, for the supply of 1,080 length of 16-in. c.-i. pipe, and also for the supply of 16-in. valves. Joseph Oliver is Mayor and Chn. Bd.

## SEWERAGE.

BOSTON, MASS.—Guy C. Emerson, Supt. of Streets, has awarded to the T. J. YOUNG CO. contract for constructing sewerage works in Washington St., between Williams and Green Sts., West Roxbury, at $7,907, the lowest of seven bids. Other bidders were: E. F. Kennelly, $8,161; McCarthy & Walsh, $8,433; Coughlan & Shells, $8,652; John F. O'Connell, $9,907; D. E. Lynch, $9,111; A. Cefalo, $10,844.

DANIELSON, CONN.—Contract for sewer work, bids for which were opened on Aug. 16, has been awarded to the PETROSSI CO., Hartford, at about $10,000. The plans have been amended to provide for a trunk sewer from main St. through Water and Franklin Sts. and thence to the river. Noted last week.

BUFFALO, N. Y.—Bids will be received by Francis G. Ward, Comr. Pub. Wks., until Sept. 8 for constructing a 36, 33 and 30-in. brick; 20, 15, 12 and 10-in. tile sewer in Montrose, Kenmore, Homeworth Aves. and Main St.; also for constructing a 15 and 12-in. tile sewer in Oak Grove and Gillette St.

SYRACUSE, N. Y.—Bids for Contract No. 8, for the completion of the contract for the improvement of Onondaga Creek and known as Contract No. 2, were received by the Intercepting Sewer Board, 112 Court House, Syracuse, on Aug. 25. The work covers approximately 2¼ miles in length. Its principal items are 68,000 cu. yds. excavation and 13,600 cu. yds. concrete blocks and mass concrete. The bids follow: David Peoples, Rye, N. Y., $234,350; Robert C. Storrie & Co., Philadelphia, Pa., $295,988; N. D. Pound, Chicago, Ill., $226,492; Scott Bros., Baldwinsville, $283,813; Carl L. Amos, $296,876. Harry J. Hamlin is Secy.

NEW YORK, N. Y.—Contract has been awarded by Louis F. Haffen, Pres. Bronx Boro., for rebuilding the sewer in Hunts Point road, between Ryan Ave. and the northerly line of Payne Ave., and in Whittier St., from Hunts Point road to and including manhole No. 23, to J. C. RODGERS, JR., Westchester, at $99,501.

*LAKE PLACID, N. Y.—Bids will be received by the village until 8 p. m., Sept. 6, for furnishing all material, and laying complete about 3,000 ft. of sewers varying in sizes from 6 to 10-in., together with all manholes, lampholes, flush tanks, etc. O. Weaver is Village Clk.

ATLANTIC CITY, N. J.—Bids will be received by the City Council until Sept. 13, extension of date from Aug. 9, for the construction of a portion of the storm water drainage system for the city, consisting of about 70,650 lin. ft. brick and reinforced concrete and terra cotta drains from 10 ins. in diameter to 8 ft. wide. E. D. Rightmire is City Engr.; T. Chalkley Hatton is Consulting Engr., Wilmington, Del.

IRVINGTON, N. J.—Bids will be received until Sept. 7 by the Town Council for constructing sewers here. Isaac J. Casey, Jr., Co. Engr. are Town Engrs., Glorieux Bldg.; M. Stockman is Town Clk.

HACKENSACK, N. J.—Contract was awarded by the city on Aug. 23 to the T. M. McLEOD CO., 90 West St., New York, for concrete and pipe sewer, at $89,910. Other bidders were: William Tunny, Oakland, Md., $40,901; John F. Murphy, West Hoboken, $41,738; Fusco, Youmans & Co., Newark, $47,066; Ernest Abraham, Hackensack, $49,680; Delaney & Ferber, Hackensack, $52,426; Norcross & Edmunds, Philadelphia, Pa., $55,261; J. Valenti & Co., Orange, $55,495; McArthur Bros. Co., New York, $57,907; David V. Ault & Co., Baltimore, Md., $63,844; Albert Carr, East Orange, $71,324.

SEA ISLE CITY, N. J.—Bids will be received by Jacob Wells, Chn. Sts. Com. of the Common Council until Sept. 10, for furnishing the materials and doing the labor for a system of surface water drainage.

WILKES-BARRE, PA.—The Sewer Committee of Councils on Aug. 25 awarded contract to D. M. ROSSER, of Wilkes-Barre, for the construction of the Pennsylvania Ave. sewer at $77,630. The sewer will be of brick.

ERIE, PA.—The Council on Aug. 16 awarded to GEORGE WALLER & CO., Pittsburg, contract for five of the six sections of the Mill Creek intercepting sewer system, and the other section to KNOBLOCH & SHELTON, of Erie. Total cost, about $50,000.

BELLEVUE, PA.—Bids will be received by James M. Simeral, Clk. of Council, Harrison, until 6 p. m., Sept. 7, for laying a storm sewer in Maple Ave., from Ellsworth Ave. to Myrtle Ave.

WASHINGTON, D. C.—Bids were received as follows on Aug. 30, by the Commissioners of the District of Columbia for the construction of service sewers in the District: (a) ordinary excavation, (b) sewer brick masonry, (c) vitrified brick masonry, (d) concrete masonry "D." Warren F. Brenizer Co., (a) 60 cts., (b) $15, (c) $20, (d) $7.90; R. J. Beall Construction Co., (a) 60 cts, (b) $3.50, (c) $20, (d) $7.39; George Hyman, (a) 77 cts., (b) $14, (c) $22, (d) $7.75; E. G. Gummel, (a) 80 cts., (b) $16, (c) $24, (d) $8; James G. Coyle, (a) $1.25, (b) $14, (c) $21, (d) $7.15.

NEWBERRY, N. C.—The Commissioners of Public Works have awarded contract, at $34,623, to BOWE & PAGE, Augusta, Ga., for six miles of sewer and water pipe, etc., for sewer and water-works improvements. Bids were opened on Aug. 10. List of bidders noted on Aug. 19. Wilson, Sompayrac and Vrquhart, Columbia, S. C., are Consulting Engrs.

CEDARTOWN, GA.—The city has awarded contract to R. H. WRIGHT CONTRACTING CO., Birmingham, Ala., for constructing sewer extensions.

BIRMINGHAM, ALA.—C. M. BURKHALTER, of Birmingham, has secured the contract for constructing 8 to 12-in. sanitary sewers, at $12,000. Maury Nicholson is City Engr.

*LOUISVILLE, KY.—Bids were opened on Aug. 13 by the Commissioners of Sewage for a sewer in Ewing Ave., Contract 50. Contract has been awarded to M. J. BURKE, of Sandusky, Ohio, as follows: 1,545 lin. ft. earth excavation at $2; 907 lin. ft. earth excavation at $1.60; 806 lin. ft. earth excavation at $1.35; 1,700 cu. yds. rock, at $2; 350 cu. yds. concrete at $8; 50 cu. yds. masonry at $8; 525 sq. yds. vitrified brick paving at $1; 20 cu. yds. excavation below masonry at $1; 20 cu. yds. gravel refill at $1.50; vitrified pipe, $6,666; 4,963 lin. ft. pipe laying, 10 cts.; 1,050 lin. ft. pipe laying in chimneys at 10 cts. Total, $20,071. Other bids were: E. A. Barker & Son, Louisville, $25,318; Louisville Construction Co., Louisville, $28,192; E. G. Nave Bros. Co., Portsmouth, Ohio, $30,860.

*LOUISVILLE, KY.—Bids are asked by the Commissioners of Sewerage, until noon, Sept. 17, for constructing portion of Section "D"—Southern Outfall Sewer, Contract No. 56. W. C. Nones is Chn.; J. B. F. Breed is Ch. Engr.

GIRARD, OHIO.—Bids are asked until noon, Sept. 3, by the Village Council, J. F. McFarlin, Clk., for the construction of sewers and house connections in Sewer District No. 3.

XENIA, OHIO.—Contract for constructing a sewage disposal plant and sewers at the Soldiers' and Sailors' Orphans' Home, bids opened on Aug. 21, has been awarded to the GENERAL CONCRETE CONSTRUCTION CO., of Cleveland, Ohio, at $13,307.

CINCINNATI, OHIO.—Bids will be received by the Board and Director of Public Service until noon, Sept. 7, for furnishing the necessary labor and materials for the improvement of right-of-way east of Dennis St., from Corry St. to existing sewer in Bishop St., north of Daniel St., by constructing sewers and drains.

The Board of Public Service on Aug. 20 let contract for building a trunk sewer west of Harrison Ave. and north and south of Montana Ave. to Bridgetown and Muddy Creek road, and a 24-in. line east of Harrison Ave. and south of Montana Ave. to the WELLING & FRANZ CO., at $160,036.

AKRON, OHIO.—Bids will be received by the Board of Public Service until Sept. 8, for the construction of a sewer in Wall St. and Cuyahoga Falls Ave., with all the holes, ventilators and appurtenances.

CLEVELAND, OHIO.—The J. CONNELLY CONSTRUCTION CO., 409 Schofield Bldg., Cleveland, Ohio, has been awarded contract, at $5,450, for the construction of a sewer in Mayfield road, S. E., between East 116th St. and East 120th St.

ROCKVILLE, IND.—C. E. COREY, of Rockville, has secured the contract for constructing a sewer system for the new hospital at Rockville, at $3,999.

ANDERSON, IND.—The DANIELS-LYST CO., of Anderson, have secured contract, it is reported, for constructing a sewer in Shadeland District, at about $5,099.

MT. CARMEL, ILL.—CRANE & CRANE, of Carbondale, have secured the contract for the construction of the West Side sewer system, at about $30,000.

HAMBURG, IOWA.—We are officially advised that the J. S. WORLEY CO., Reliance Bldg., Kansas City Mo., has received contract for the construction of the sewer system here.

CHEROKEE, IOWA.—Bids are asked until 8 p. m., Sept. 7, by the City Clerk, for the construction of about 20,000 ft. of 6, 8 and 10-in. vitrified pipe sanitary sewers.

ST. PAUL, MINN.—The Board of Public Works on Aug. 20 awarded contract for the Atwater St. sewer system to the GENERAL CONTRACTING CO., 445 Temple Court, at $46,000.

BAUDETTE, MINN.—See item under Water Supply—Irrigation.

MORRIS, MINN.—Bids are asked by the Common Council until 8 p. m., Sept. 14, for the construction of a sewer in district No. 8. C. B. Burpee is City Clk.

FORT ROBINSON, NEB.—See item under Buildings.

BOTTINEAU, N. DAK.—Bids will be received until Sept. 4 by C. P. Telle, City Audr., for constructing a trunk sewer and lateral sewers in Sewer district No. 1, requiring 1,250 ft. of 30-in. and 1,285 ft. of 24-in. vitrified pipe, etc., for trunk sewer, and 5,220 ft. 18, 15 and 12-in. vitrified pipe in Thompson, Main and Fifth Sts.; two flush tanks, 18 manholes, Y's, etc. Samuel F. Crabbe is Engr., Fargo.

IPSWICH, S. DAK.—Contract for constructing sewage system, bids opened on Aug. 16, has been awarded by the city to TANNERS BROS., Webster, at $18,096. S. H. Rossiter is City Audr.

HANNIBAL, MO.—Bids will be received by Aug. Scheineman, City Clk., until noon, Sept. 6, for the construction of a district sewer in district No. 31.

LITTLE ROCK, ARK.—JOSEPH McCOPPIN, of Little Rock, has secured contract for constructing a sewer in Sewer district No. 52 at $8,741. Bids were opened by the Board of Commissioners on Aug. 17.

MUSKOGEE, OKLA.—Bids will be received until 5 p. m., Sept. 7, by Charles Wheeler, Jr., City Clk., for furnishing material and constructing district sewer No. 14.

SEATTLE, WASH.—Contract for constructing the King St. trunk sewer is reported to have been awarded to DAN McGARRY at $10,587. The sewer will be of reinforced concrete.

PORTLAND, ORE.—The lowest bid opened on Aug. 13 for the construction of the Johnson Creek sewer is stated to have been submitted by the Pacific Coast Construction Co., of Portland, at $9,741.

SAN FRANCISCO, CAL.—The CONTRA COSTA CONSTRUCTION CO. has been awarded contract for constructing division A of the Division St. sewer at $165,140.

Bids are asked by the Board of Public Works until Sept. 8, for the construction of a sewer in H St., between 20th and 40th Aves. Estimated cost, $95,000. Marsden Manson is City Engr.

BOISE, IDAHO.—The IDAHO HARDWARE & PLUMBING CO. have been awarded contract for laying the sewer in district No. 108 at $15,341.

## STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

HOOKSET, N. H.—Bids are asked by A. W. Dean, State Engr., Concord, N. H., until 5 p. m., Sept. 10, for constructing a trap rock road to cost $4,600, at Hookset and ¾ mile of gravel road at Rye.

BOSTON, MASS.—We are officially advised that the lowest bid received on Aug. 26, by the Charles River Basin Commission, for surfacing a portion of the Charles River Dam (east of lock) was submitted by W. H. Ellis, 17 Milk St., Boston, at $6,374. Walton H. Sears is Div. Engr.; Hiram A. Miller, Standish Bldg., is Ch. Engr.

HARTFORD, CONN.—Bids are asked by the State Highway Commissioner, Capitol, Hartford, until 2 p. m., Sept. 2, for the following road work: Town of Stafford. 13,800 lin. ft. gravel-telford road, 16 ft. in width, including two 15-in., two 18-in. and one 20-in. tile culverts. Town of East Granby, 2,800 lin. ft. gravel-telford road, 14 ft. in width, including one 12-in., one 15-in. and one 18-in. tile culverts. Town of West Hartford, 2,300 lin. ft. macadam-telford road, 32 ft. wide, of which the state pays for a 16-ft. width.

NEW BRIGHTON (S. I.), N. Y.—Bids are asked by George Cromwell, Pres. Richmond Boro., until noon, Sept. 14, for furnishing and delivering 5,000 tons of 1½-in. and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, at such points and in such quantities from time to time as the Superintendent of Highways may direct upon the roads within the portion of the Borough of Richmond known as Stone District No. 1, and bounded as follows: North by the Kill Von Kull; west by the Arthur Kill or Staten Island Sound to Richmond Turnpike; thence to Union Ave. to Old Stone Road; north along Old Stone Road to Rockland Ave. to Manor Road, to Richmond Turnpike, and thence along Richmond Turnpike easterly to Clove Road, to Bard Ave., to the Kill Von Kull. All bounding roads named in the above description are included in this district, and for furnishing and delivering 6,500 gallons of macadam road binder, with asphalt as base, in tank car at Clifton, Staten Island Siding.

NEW YORK, N. Y.—The following bids were received on Aug. 23, by John F. Ahearn, Pres. Boro. of Manhattan, for regulating and repaving with wood block pavement on a concrete foundation the roadway of the following streets and avenues except where now paved with wood block: Ave. A, from the north side of Houston St. to the south side of 24th St., U. S. Wood Preserving Co., 165 Broadway, $106,638; Barber Asphalt Paving Co., 30 Church St., $123,738; Sicilian Asphalt Paving Co., 54th St. and Twelfth Ave., $112,585.

Regulating and repaving with sheet asphalt pavement the roadway of Central Park West, from Grand Circle to 110th St., north of the north curb line of 109th St.: Barber Asphalt Paving Co., 30 Church St., $165,492; Sicilian Asphalt Paving Co., 54th St. and Twelfth Ave., $119,895; Uvalde Asphalt Paving Co., 1 Broadway, $109,999; Asphalt Construction Co., Madison Ave. and 137th St., $105,912.

Retaining the asphalt pavement on street where the original contracts have been abandoned: Uvalde Asphalt Paving Co., 1 Broadway, $10,330; Sicilian Asphalt Paving Co., 54th St. and Twelfth Ave., $12,000; Vulcanite Paving Co., $12,800.

Regulating and repaving with granite block pavement on a concrete foundation the roadway of First Ave., from the south side of 20th St. to the south side of 59th St., etc.: Raferty Bros., 624 West 52d St., $194,940; Matthew Beard Contracting Co., $224,606; Dunbar Contracting Co., $219,310; W. J. Fitzgerald, 547 West 45th St., $201,425; Asphalt Construction Co., Madison Ave. and 137th St., $221,641.

NEW YORK, N. Y.—Bids are asked until Sept. 7 (readvertisement) by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, grading, curbing, flagging, laying crosswalks, building approaches and placing fences in Gun Hill Road and Burnett Pl.; also paving with asphalt and granite blocks Jennings St.; requiring in all 14,400 sq. ft. new flagging, 2,695 sq. yds. asphalt block, 5,135 sq. yds. granite block, 4,150 lin. ft. new curb, etc.

Bids were received Aug. 24 at the office of Louis F. Haffen, Pres. Boro. of the Bronx, for asphalt block paving on concrete foundation. The lowest bid received was that of the Barber Asphalt Paving Co., 30 Church St. It bid for paving East 136th St., from Alexander Ave. to Willis Ave., $6,523, and for Grand Ave., from 161st St. to 162d St., $3,761.

JAMAICA (L. I.), N. Y.—The ASTOR CONSTRUCTION CO. has secured the contract for regulating portions of New York Ave. and Fleet St., Jamaica, at $68,225.

NEWTON (L. I.), N. Y.—The LONG ISLAND CONTRACTING & SUPPLY CO. has secured the contract for regulating Shell Road in Newton at $44,377.

NIAGARA FALLS, N. Y.—The contract for paving Seventh St. has been awarded to REED-CODDINGTON ENGINEERING CO., of Niagara Falls, N. Y., at $23,491. R. A. McClanahan is City Engr.

RENSSELAER, N. Y.—The Common Council on Aug. 19 awarded the contract for paving with brick John and Second Sts. and Harrison Ave. to WILTSE & RIGNEY, at $15,818.

ALBANY, N. Y.—The following proposals for the repair of roads which have heretofore been improved by State aid, were received by the State Commission of Highways at its office at Albany, Aug. 27: Repair Contract 28, Webster, Sec. 2, Road 99; Dugway, Sec. 1, Road 168; Dugway, Sec. 2, Road 169, Monroe County: A. J. Rockwood, Rochester, $19,414; J. W. Lewis, Construction Co., Rochester, $17,672; F. A. BROTSCH, JR., Rochester, $17,500 (awarded contract). Repair Contract 29, Webster, Sec. 4, Road 101, Monroe County: A. J. Rockwood, Rochester, no gross sum; F. A. Brotsch, Rochester, $3,740; H. C. Schroeder, Rochester, $3,686; no bid within appropriation. Repair Contract 30, Hudson Ave., Sec. 2, Road 173, Monroe County: FREDERICK A. BROTSCH, Rochester, $4,200 (awarded contract); H. C. Schroeder, Rochester, $4,715. Repair Contract 31, Little Ridge, Sec. 3, Road 255, Hilton, Road 269, Monroe County: Thomas Bucknall, Albion, $4,378; Frederick A. Brotsch, Rochester, $4,900; A. J. Harridan, Spencerport, N. Y., $4,294 (awarded contract); John Boylin, Barnard, $5,218. Repair Contract 32, Main St., Sec. 2, Road 87, Erie County: Barber Asphalt Paving Co., Cambridge, Mass., $9,900; A. J. Rockwood, Rochester, $8,000; HENRY P. BURGARD, 275 Lathrop St., Buffalo, $7,600 (awarded contract); Busch & Purschall, Buffalo, $8,538. Repair Contract 33, Main St., Sec. 1, Road 69, Erie County: A. J. Rockwood, Rochester, $19,000; BUSCH & PURSCHALL, Brisbane Bldg., Buffalo, $16,757 (awarded contract); Barber Asphalt Paving Co., Cambridge, Mass., $21,000. Repair Contract 34, Big Tree, Road 86, Erie County: No bids received. Repair Contract 35, Aurora-Buffalo Road 128, Erie County: F. A. BROTSCH, JR., Rochester, $75,000 (awarded contract); Frank V. E. Bardell, Buffalo, $78,164; H. P. Burgard Co., Buffalo, $78,500; Todd Construction Co., Newburg, $78,000; Frank V. Brotsch Co., Rochester, $88,000; F. J. Mumm, Buffalo, $84,700; F. L. Cohen, Buffalo, $84,700; John Miller, Buffalo, $80,000. Repair Contract 36, Skinnersville-New Home Bridge, Road 584, Erie County: Busch & Purschall, Buffalo, $7,927; F. J. MUNN, Buffalo, $7,060 (awarded contract); Frank L. Cohen, Buffalo, $8,154. Repair Contract 37, Amsterdam-Minaville, Sec. 1, Road 32, Montgomery County, West Mohawk River Road 108: S. B. Van Wagonen, Broadalbin, $9,000; C. H. FLANIGAN, Albany, $8,098 (awarded contract). Repair Contract 38, Ulster-Delaware, Sec. 1, Road 16, Shandaken-Hurley, Sec. 1, Road 118, Ulster County: John E. Consolus, New York, $15,087; H. P. BURGARD CO., Buffalo, $12,500 (awarded contract). Repair Contract 39, Kingston-Rifton, Road 116, Kingston-Ellenville, Sec. 3, Ulster County: HENRY P. BURGARD CO., Buffalo, $11,500 (awarded contract). Repair Contract 40, Hastings-Ardsley Road 17, Ardsley-Elmsford, Sec. 1, Road 18, Mamoroneck-White Plains, Road 19, Ardsley-Elmsford, Sec. 2, Road 34, Unionville-McKeels Corners, Road 52, McKeels Corners-Briarcliffe, Road 53, Westchester County: James E. Martin, Poughkeepsie, $44,000; H. P. Burgard Co., Buffalo, $35,000; Harvey B. Spraul, Peekskill, $35,000; Bellew & Merritt Co., Tuckahoe, $36,590; W. F. McCabe, White Plains, $36,799; James Duell, Tarrytown, $37,650. Contract not awarded. Repair Contract 41, White Plains-Cross Road, Road 20, White Plains-Armonk, Road 35, Armonk-Mount Kisco, Road 50, Westchester County: White & Colligan, Poughkeepsie, $21,753; James Carifond, Mt. Vernon, $20,700; James E. Martin, Poughkeepsie, $24,000; H. P. Burgard Co., Buffalo, $18,000; H. B. SPRAUL, Peekskill, $16,000 (awarded contract); W. F.

McCabe, White Plains, $22,114; O'Rourke Bros., Yonkers, $18,775. Repair Contract 42, Mt. Kisco-Bedford, Road 51, Bedford-Cross River, Road 144, Cross River-Turk Hill, Road 150, Westchester County: James E. Martin, Poughkeepsie, $20,000; HARVEY B. SPRAUL, Peekskill, $15,000 (awarded contract); H. P. Burgard Co., Buffalo, $16,250. Repair Contract 43, Briarcliff Manor-Echo Lake, Road 54, Echo Lake-Pines Bridge, Road 147, Pines Bridge-Yorktown Heights, Road 148, Yorktown Heights-Putnam County line, Road 149, Westchester County: HARVEY B. SPRAUL, Peekskill, $19,500 (awarded contract); James E. Martin, Poughkeepsie, $27,500; H. P. Burgard Co., Buffalo, $20,250; W. F. McCabe, White Plains, $20,-060; Malloy & Murray, Yonkers, $23,900. Repair Contract 44, South Town-Poughkeepsie Road 223, Dutchess County: James E. Martin, Poughkeepsie, $6,990; H. P. Burgard Co., Buffalo, $7,000; GENERAL CONSTRUCTION CO., Bridgeport, Conn., $6,407 (awarded contract). Repair Contract 45, Nyack Turnpike, Road 91, Rockland County: L. B. Jones, Albany, $13,136; H. P. Burgard Co., Buffalo, $11,000; H. B. SPRAUL, Peekskill, $9,457 (awarded contract); H. C. Herring, Jr., & Co., Hillsdale, N. J., $9,-932.

NEWTON, N. J.—Bids will be received by the Board of Chosen Freeholders until Sept. 20 for grading and macadamizing a road in the Township of Hardyston, between Passaic and Sussex Counties, near Stockholm, about six miles in length. A. H. Knowie is County Engr.; Loren T. Cole is Dir.

HARRISBURG, PA.—Bids are asked until Sept. 8 by Joseph W. Hunter, State Highway Comr., Harrisburg, for constructing the following roads: National Road in Secs. 6 and 7, Fayette County, 5,590 ft. and 5,500 ft., respectively; National Pike in Sec. 8, Somerset County, 5,900 ft. Also same place until Sept. 9 as follows: National Pike in Secs. 4 and 5, Washington County, to be 5,700 ft. and 7,911 ft. respectively.

CANONSBURG, PA.—Bids will be received until Sept. 6 by W. C. Black, Boro. Clk., for grading and improving Jefferson and Bluff Aves., requiring about 3,450 sq. yds. paving and 2,500 ft. curb. J. M. Farmer is Boro. Engr.

CARNEGIE, PA.—Bids are asked by T. J. Kearns, Chn. Street Com., Carnegie, until 7.30 p. m., Sept. 6, for the grading, curbing, paving and otherwise improving of the following streets of Carnegie, Pa. O. B. Higby, 424 Fourth Ave., Pittsburg, is Boro. Engr.

GEISTOWN, PA.—The contract for the construction of 3,050 lin. ft. of state road commencing here has been awarded to the RIDGE BROS. CO., 407 Fourth Ave., Pittsburg, Pa., at $11,994. The road will be built by the State, and the contract was awarded by Joseph W. Hunter, State Highway Comr., Harrisburg, Pa.

*WILMINGTON, DEL.—Bids are asked by Francis A. Price, New Castle County State Highway Comr., 1000½ Market St., Wilmington, until noon, Sept. 14, for building a macadam road, known as the New London Road, extending from the town of Newark to the Pennsylvania line, a distance of 2.71 miles, the surface to be of stone, amisite, asphaltum or tar binder or warrenite.

The following bids were received on Aug. 24 by the Levy Court for constructing County roads: Hillside Mills Road, from Campbell's cross roads on the Kennet Turnpike to Hillside Mills and thence to Mt. Cuba bridge and thence to Ashland bridge, a distance of about 3½ miles: P. L. Wickersham, of Kennett Sq., granite or trap rock bottom and surface, $28,330; limestone, $31,-955; Warrenite, $41,594; William C. Evans, Ambler, Pa., granite or trap rock, $30,485; limestone, $38,738; Amisite, $42,090; tar binder, $38,222; Corcoran Construction Co., granite or trap rock, $24,003; limestone, $26,072; Amisite, $32,257; asphaltum binder, $28,388; tar binder, $28,388.

Milltown Road, in Mill Creek Hundred, a distance of less than half a mile: Joseph F. Bradley, $2,729; Stewart & Donohue, $2,-900; William C. Evans, $2,845.

Creek Road, in Mill Creek Hundred, from Red Clay Creek Church to Hockessin, a distance of about four miles: William C. Evans, stone macadam surface, $39,005; Amisite, $47,849; asphaltum binder, $43,427; tar binder, $41,953; Corcoran Construction Co., stone macadam, $32,866; Amisite, $44,-658; asphaltum binder, $37,877; tar, $37,877; B. L. Wickersham, stone, $32,250 and $36,-100; Amisite, $44,220; Warrenite, $52,294; Joseph L. Bradley, stone, $24,988.20; Amisite, $29,480. The bids were referred to the Finance Committee and the Highway Commissioner.

The court awarded contracts to JOSEPH F. BRADLEY for the Creek Road in Mill Creek Hundred, at $24,988, the road to be built of local stone; and the Milltown Road, at $2,729, to be built of stone from the workhouse quarry. The CORCORAN CONSTRUCTION CO. was awarded the contract for the Hillside Mills Road, at $24,003. This road is to be built of trap rock or granite. The Highway Commissioner was directed to advertise for bids for constructing the New London Road in White Clay Creek Hundred, the plans and specifications of which were approved by the court. Robert M. Burns is County Treas.

CUMBERLAND, MD.—The city has awarded contracts for proposed street paving to LEFEVRE & EDWARDS, of Cumberland, at $11,200, $3,450, $3,500 and $3,633. It will probably ask new bids on Fayette St. improvements.

BALTIMORE, MD.—The State Roads Commission, Baltimore, has awarded contract at $31,586 to McCORMICK & CO., 15 South Broad St., Philadelphia, Pa., for constructing 3.14 miles of road from Centerville toward Church Hill, and has awarded contract at $26,252 to F. M. LATHAM, 144 West North Ave., Baltimore, for constructing three miles of road from Chestertown to Church Hill.

Bids are asked by the Board of Awards until 11 a. m., Sept. 8, to grade, curb and pave Wolfe St., from the north side of Monument St. to the south side of Jefferson St., with sheet asphalt, asphalt blocks, bitulithic, vitrified paving blocks or wood blocks. B. T. Fendall is City Engr.

*BALTIMORE, MD.—Bids are asked by the State Roads Commission, Union Trust Bldg., Baltimore, until noon, Sept. 7, for building six sections of state highway aggregating about 17½ miles in the City of Baltimore and the following counties of the State of Maryland: Baltimore City—On the Falls Road from Third Ave. to the Baltimore County line, a distance of about 61 miles. Baltimore County—On the road from the city limits towards Sweetzer's Bridge, a distance of about 1.84 miles; and, on the Hartford Road from the city limits to Taylor Ave., a distance of about 2.93 miles. Howard County—On the road between West Friendship and Sykesville, a distance of about 3.2 miles. Carroll County—From the corporation limits of Westminster to Cranberry Station, a distance of about 1.09 miles. St. Mary's County—On the road from Leonardtown north towards Mechanicsville, a distance of about 3.49 miles. Washington County—Beginning on the National Pike at the end of the macadam road about two miles west of Conococheague Bridge and extending towards Indian Spring, a distance of about 4.29 miles, omitting that portion of the road through the town of Clear Spring.

WASHINGTON, D. C.—Bids were received as follows on Aug. 28, by the Commissioners of the District of Columbia, for laying about 10,000 sq. yds. of cement sidewalks in the District of Columbia: Lake Stone Co., Washington, D. C., Class A, $1; Class B, $1.25.

HUNTINGTON, W. VA.—Bids are asked until 2 p. m., Sept. 20, by the City Commissioners for grading, draining, curbing and paving with vitrified brick, Seventh Ave., from Eighth to Ninth Sts., also for grading, draining and paving with concrete, Third Ave., from the brick pavement, west of 23d St. to the pavement at 24th St. John Coon is Comr. of Streets and Sewers.

BECKLEY, W. VA.—Bids will be received until Sept. 16 by G. C. Hedrick, City Recdr., for constructing 3½ miles of limestone macadam roads, also 3½ miles of concrete macadam roads, 3,000 sq. yds. of brick pavement and 10,000 ft. 10 and 12-in. sewers, etc. F. A. Cloud is City Engr.

FORT DADE (Egmont post-office), FLA.—Bids are asked until 8 p. m., Sept. 20, by the Constructing Q. M., Fort Dade, for constructing about 4,150 sq. ft. of granolithic walks.

BIRMINGHAM, ALA.—The GRAVES-MATTHEWS PAVING CO., of Birmingham, has secured contract for 16,000 sq. yds. of brick paving.

NORTH BIRMINGHAM, ALA.—The city has awarded contract to P. H. O'BRIEN, of Birmingham, Ala., for sidewalks, grading, cherting and sewers at about $50,000.

NORTHPORT, ALA.—Bids are asked until noon, Sept. 6, by the Town Council for construction of approximately 3,000 sq. yds. of concrete sidewalks and 1,200 lin. ft. of concrete curbing gutters. Dr. A. A. Kirk is Mayor.

MORRISTOWN, TENN.—Bids are asked by J. N. Fisher, Chn. Hamblen County Pike Comn., until 1 p. m., Sept. 11, for grading and macadamizing about 65 miles of roads in Hamblen County.

KENT, OHIO.—We are officially advised that HARRY CORL, of Canton, Ohio, has secured contract at $18,606 for South Water St. and Brimfield Road paving, bids received Aug. 16. He will use Wooster paving block and Berea curb. L. E. Chapin is Engr.; W. E. Sarver is Engr.-in-Charge. Time, 100 days.

MILLERSBURG, OHIO.—Bids are asked by the Commissioners of Holmes County, Ohio, until noon, Sept. 10, for grading, paving and macadamizing 1.14 miles of road in Hardy Township. Estimated cost, $12,048. James C. Wonders is State Highway Comr., Columbus.

POMEROY, OHIO.—Bids are asked at the office of the Commissioners of Meigs County, Ohio, until noon, Sept. 14, for grading and paving with brick 0.34 miles of road in Rutland Township; also for grading and paving with brick 0.398 miles of road in Salisbury Township. James C. Wonders is State Highway Comr., Columbus.

ZANESVILLE, OHIO.—Bids are asked by the Commissioners of Muskingum County until noon, Sept. 7, for paving 1.30 miles of road in Wayne Township. Cost, $15,628. James C. Wonders is State Highway Comr., Columbus.

CADIZ, OHIO.—Bids will be received at the office of the Commissioners of Harrison County, Ohio, until noon, Sept. 9, for grading and macadamizing 1.23 miles of road in Franklin Township. Estimated cost of construction, $10,058. James C. Wonders is State Highway Comr., Columbus.

CAMBRIDGE, OHIO.—Bids will be received at the office of the Commissioners of Guernsey County, Ohio, until noon, Sept. 8, for the following roads: Grading and macadamizing and paving with brick one mile of road in Cambridge Township, said county. Estimated cost of construction, $7,772; grading and macadamizing 0.76 miles of road in Jackson Township, said county. Estimated cost of construction, $4,374; grading and macadimizing one mile of road in Millwood Township, said county. Estimated cost of construction, $8,229. James C. Wonders, State Highway Comr., Columbus.

*FAYETTE, OHIO.—Bids are asked until noon, Sept. 10, by C. D. Hause, Village Clerk, for 6,400 sq. yds. of vitrified or other block paving.

ST. CLAIRSVILLE, OHIO.—The contract for macadamizing 1.19 miles of road in Goshen Township has been awarded to WILLIAM MOORE, of St. Clairsville, for $7,179. Ray H. Cope is County Audr.

SILVERTON, OHIO.—Bids will be received until Sept. 4 by A. A. Sprague, Village Clk., for constructing cement sidewalks on the Montgomery Pike.

CLEVELAND, OHIO.—Bids are asked by the Commisioners of Cuyahoga County, Ohio, until 11 a. m., Sept. 18, for grading, draining and improving North Woodland Road, from Brainard Road to Chagrin River Road, in Orange Township. A. B. Lea is County Surv.

Contract has been let to the STANDARD PAVING CO., Cleveland, Ohio, at $8,111, for paving Superior St., at $8,732; for paving Broadway Ave., at $20,579; for paving Fulton Road, and for paving and improving Lakeside, at $27.94. Bids for the work were received Aug. 12.

RINEHART BROS., of East Liverpool, Ohio, have been awarded the contract for the construction of the Mayfair Road near here. The contract price for the road, which will be of brick, and about 4½ miles in length, is about $92,000.

TOLEDO, OHIO.—Bids will be received by the Board of County Commissioners until Sept. 15, for macadamizing Road No. 22, a distance of 3¼ miles, in Washington and Sylvania Townships; also macadamizing Reynold Road in Adams Township. D. T. Davies, Jr., is Audr.

EAST LIVERPOOL, OHIO.—WELLS & FORBES have been awarded the contract for paving Washington Ave. with brick, at $4,736. The contract for the brick for this street has been awarded to the VULCAN BRICK & CLAY CO.

COSHOCTON, OHIO.—Bids are asked until 10.30 a. m., Sept. 7, by the Commissioners of the Road District, composed of the Townships of Tuscarawas, Franklin, Jackson and Keene in Coshocton County, Ohio, for the repairs of the Canal Lewisville and Mill Creek roads in Tuscarawas Township, 1,000 ft.; Repair No. 4, beginning at a bridge on lands of V. Humrickhouse in Franklin Township, thence running north 1,500 ft.; Repair No. 5, beginning at the driveway on the John Trovinger residence on the Coshocton-Plainfield Road in Tuscarawas Township, thence running in a southeasterly direction 3,800 ft. C. R. Randles is County Audr.

COLUMBUS, OHIO.—Bids are asked until noon, Sept. 4, by Walker Braun, County Surv., to macadamize the Hess Pike from the east end of the Bethel Pike at the Clinton and Sharon Township line southerly to the cemetery west of North Columbus, thence westerly through Clinton and Perry Townships to the Dublin Road just east of the Fishinger Mill Bridge, a distance of 7.2 miles, and located in Clinton and Perry Townships.

CINCINNATI, OHIO.—The County Commissioners have awarded the contract for the improvement of the Ohio Pike, from the Little Miami River to Bogart Road, in Anderson Township, to THOMAS J. McKIM at his bid of $20,223. There were seven bidders, and all but two were under the Engiger's estimate of $23,097.

The contract for the resurfacing of the Cleves and Warsaw Pike, through Addyston, was awarded to WILLIAM HARRELL & CO. for $4,198, the estimate being $5,586. There were five bidders.

Bids were opened for the improvement of State Road, from New Haven and New Baltimore Roads to Reese Hill. The estimate for the work is $14,488. The following submitted bids, which were referred to the County Surveyor for computation: A. P. Toph, E. Thomas, H. Westerman, Nugent & Hines, W. Harrell & Co. and Joseph Gradison.

VALPARAISO, OHIO.—Bids are asked until 8 p. m., Sept. 10, by the Common Council for improving part of Factory St., commencing from the west property line of Campbell St., thence running west to the west property line of Ruge St., in said city, by grading, draining and paving the same. Charles D. Jones is City Clerk.

SCOTTSBURG, IND.—Bids are asked until 11 a. m., Sept. 6, by the Scott County Commissioners for the construction of one mile and 4,093 ft. of free gravel road, known as the Zion and Scottsburg Road, the estimated cost of which is $4,238. Said road is in Finley Township.

SHEBOYGAN, WIS.—The Board of Public Works has awarded contract for brick paving on Pennsylvania Ave., from North Eighth St. to C. & N.-W. R. R. station, 5,381 sq. yds., to JOHN BRAUN, of Sheboygan, Wis., at $2.05 per sq. yd. Contract for cedar block pavement, 1,774 sq. yds., was awarded also to JOHN BRAUN, at $1.85 per sq. yd.

MILWAUKEE, WIS.—The Board of Public Works has awarded contracts for paving on Seventh St., as follows: Brick—Grand Ave. to Wells St., BACHELLER & POWELL $1.89½ per sq. yd.; State to Prairie Sts., HASE & WEIHER, $1.81; Chestnut to Vliet Sts., HASE & WEIHER, $1.81; Galena to Walnut Sts., HASE & WEIHER, $1.81. Asphalt—Cedar to State Sts., BADGER CONSTRUCTION CO., $2.34 per sq. yd. Kettle River Sandstone—Prairie to Chestnut Sts., HASE & WEIHER, $2.98 per sq. yd. Tenth St., from Cedar to Prairie Sts. with asphalt, BADGER CONSTRUCTION CO., $2.33 per sq. yd. Twelfth St., from Cedar to Vliet Sts., with asphalt, BADGER CONSTRUCTION CO., $2.34 per sq. yd.

HUTCHINSON, KAN.—Bids are asked until 3 p. m., Sept. 8, by the Board of Commissioners for 36,000 sq. yds. of either brick, bitulithic, creosoted wood block, bituminous concrete, or Portland cement concrete pavement. Separate bids will be received on approximately 7,000 lin. ft. of curb and gutter. Edward Metz, City Clerk; G. L. McLane is City Engr.

*OLATHE, KAN.—Bids are [illegible] by Jasper T. Kincaid, County Clerk, until noon, Sept. 18, for grading the Sante Fe Road and the J. R. Thorp Road. Plans and specifications are on file at the office of Engineering News, New York.

NORTH YAKIMA, WASH.—Bids will be received by the County Commissioners until Sept. 11 for opening and grading the Baker road, in Selah Valley.

MOUNT VERNON, WASH.—Bids will be received by the County Auditor until Sept. 7 for constructing the W. V. Wells road around Marches Point, a distance of [illegible] ft.

LOS ANGELES, CAL.—The Board of Supervisors has accepted bid of [illegible] CO., of Long Beach, Cal., for [illegible] to Long Beach Boulevard [illegible] Ave., at $56,742.

SALT LAKE CITY, UTAH.—[illegible] contract for grading, curbing and paving [illegible] North Temple and Fifth Sts. (bids opened Aug. 16) has been awarded to T. J. [illegible] of Salt Lake City, at $101,000. H. G. [illegible] Millan is Chn. Bd. Pub. Wks.

## MANUFACTURING PLANTS.

BROOKLYN, N. Y.—A. [illegible] Miller, 696 Bushwick Ave., Brooklyn, is ready for figures for a brick and limestone factory, 6 stories, 95 x 139 ft. (mill construction), for Sundell Hyman, 2069 Fifth Ave., New York, to be erected at the southeast corner of Metropolitan and Bushwick Aves., Brooklyn, to cost about $50,000.

LAKE VIEW, N. J.—The P. S. VAN KIRK CO., of Paterson, has secured the general contract to erect the new Doherty mills at Lake View. The cost is estimated at $130,-000. Noted on Aug. 19.

BURLINGTON, N. J.—An additional silk mill to employ 500 hands is to be built here by the Martin L. Cohn Co. As the company proposes to construct other additions to its plant, Charles P. Farner gave a 3-acre site for the mill, and $30,000 was subscribed toward bonds by citizens and financial institutions.

ALLENTOWN, PA.—Walter J. Grim will erect a 3-story brick knitting mill, 26 x 56 ft., at Allentown, Pa. MARTIN APPLE has been awarded the contract to do the construction work.

PHILADELPHIA, PA.—The Smaltz-Goodwin Shoe Co., now at the northwest corner of Eleventh and Race Sts., has purchased the row of dwellings on the east side of Twelfth St., from Pearl to Wood Sts., numbered 315-23 North Twelfth St., with a number of smaller dwellings on the north side of Pearl and the south side of Wood St., as a site for a building. The ground acquired has a frontage of 72 ft. with a depth of 125 ft. The building will be ten stories in height, of brick and concrete and will cost about $150,000.

The Pennsylvania R. R. Co. has awarded a contract for the erection of a complete pressure wood-preserving plant at Point House Pier, Greenwich Point. In addition to the plant to be constructed here the company has one at Mount Union. A small experimental plant is already in operation at Greenwich Point. The P. R. R. Co. alone uses from 3,500,000 to 4,000,000 ties each year for renewals and new work. The plant to be built in Philadelphia will be similar to the one now in operation at Mount Union, except that it will be designed to accommodate an additional cylinder. The building will be 50 x 150 ft. in size, of steel frame and corrugated iron construction. It will be fireproof. The plant will have a storage yard covering an area of about 25 acres along the Delaware River. This will afford a storage capacity for from 750,000 to 1,000,000 ties. Storage tracks will be built, and a 24-in. gage track will be laid for the operation of the cylinder cars. Other material also will be given preservative treatment, including bridge timbers, telegraph poles, crossarms, planking and shingles. The capacity of the one cylinder will be from 750,000 to 1,000,000 ties per year, working day and night shifts. The two plants of the company will have a capacity of 1,500,-000 ties per year. Alexander Shand is Ch. Engr., Philadelphia.

HENDERSON, N. C.—The Henderson Cotton Mills, Henderson, N. C., will build Henderson Mill No. 2. This addition will be equipped with 10,000 spindles and accompanying machinery for the production of sheeting and yarns. It will cost probably $250,000. The company is giving consideration to details and expects to have all plans formulated at once. It is operating 28,992 spindles, 216 broad looms, etc.

ATLANTA, GA.—The Howard Safe & Vault Co., of Atlanta, has increased its capital stock from $175,000 to $500,000, it being the intention of the company to erect a plant on the outskirts of the city. Application for an amendment to the company's charter has been filed in the County Clerk's office by Roland F. Alston, the company's counsel. Work on the plant will be started in the fall.

MERIDIAN, MISS.—It is reported that the Priscilla Hosiery Mill, Meridian, Miss., is planning to erect a mill to spin the yarns needed for its knitting machines. This company is a branch of the Alden Knitting Mills, of New Orleans, La.

DELPHOS, OHIO.—The Deisel Wemmer Co., of Lima, Ohio, has awarded a contract to CARL STEINLE, of Fremont, for the construction of a cigar factory in this city to have three stories and a basement, all of reinforced concrete, with glass between the piers. The bid was $21,987. The architect's estimate was $30,000. The building will accommodate 500 employes, and is to be completed within 90 days. The excavation for the basement is ready.

INDIANAPOLIS, IND.—The National Motor Vehicle Co. will receive bids soon for the construction of a factory, 164 x 200 ft., which will be partly two stories high on East 22d St. The building will be of true

work. The floor and roof will both be supported and reinforced by this system of trusses and do away with inside pillars. Estimated cost, $25,000.

The Indianapolis Traction & Terminal Co. has prepared plans for a $15,000 paint shop on Washington St. to replace the one destroyed by fire. The building is to be 104 x 140 ft., one story high, with brick walls and slate roof. R. I. Todd is Gen. Mgr.

GOSHEN, IND.—C. E. Cornell and H. L. Peterson are at the head of a company organized to erect and equip a shirt factory.

KENDALLVILLE, IND.—The McCray Refrigerator & Lumber Co., of this city, is preparing plans to build a factory building, 75 x 220 ft., with addition to present buildings. The structure will be of brick.

CHICAGO, ILL.—Hinckley & Schmitt, Inc., 132 North Jefferson St., distributors of mineral waters, have bought the lot and building 250 ft. south front in Ontario St. 250 ft. east of Kingsbury St. and extending through to the Chicago, Milwaukee & St. Paul R. R. track. The company will erect a building designed to meet the peculiar requirements of a structure in which the business of handling drinking water is conducted. The building, which is to cost $50,000, is to be of reinforced concrete, two stories and basement, with the walls and foundations sufficiently strong to support three additional floors.

MILWAUKEE, WIS.—O. C. Uehling, Arch., Wells Bldg., is preparing plans for a $20,000 foundry and refining plant for Progressive Metal & Refining Co., to be erected on Barclay St., between Washington and Scott Sts. The plant will be of concrete, steel and brick construction, 80 x 160 ft., two stories high.

John Menge, Jr., Arch., Matthews Bldg., awarded contracts on a $35,000 manufacturing building for Herman Voss Co. at 603-607 East Water St., as follows: Carpenter, WILLIAM LEITZ; mason, A. MONSTEDT CONSTRUCTION CO., Pabst Bldg., Milwaukee. The structure is planned to be 60 x 125 ft., four stories high, of reinforced-concrete construction, with pressed brick facings and trimmings.

H. J. Esser, Arch., Camp Bldg., has awarded the general mason contract on the proposed $100,000 factory building for Kieckhefer Box Co., 16th and Canal Sts., to PAUL RIESEN'S SONS, University Bldg. The dimensions of the building are 135 x 375 ft., with wing 130 x 100 ft.; first floor and basement of reinforced-concrete constructions, second floor mill construction.

GREEN BAY, WIS.—The Diamond Lumber Co. has awarded general contract for plans and construction work on its proposed $75,000 sawmill to the McDONOUGH MFG. CO., of Eau Claire, Wis. The building is to be 60 x 180 ft., two stories high, with steel skeleton and concrete floors.

DAVENPORT, IOWA.—ROBERT ED has been awarded the contract for the erection of a 1-story brick building to be used by the Moline Pole & Shaft Co. The plans were drawn by W. H. Whitsitt. The contract price was $7,200. Axel Carlson and Gust Ed & Sons were the only other bidders. The building will be ready for occupancy by Oct. 1, work being started at once. It will be 80 ft. wide and 205 ft. long. There will be a composition, saw-tooth roof and plenty of light from big windows. The structure will have a concrete foundation and floor, and vitrified brick in the walls. The plant is to be erected on 25th St., between the tracks and the river road. Switch track facilities will be provided by the D. R. I. & N. W.

TAYLOR, TEX.—A contract has been let by the International & Great Northern R. R. Co. to J. W. THOMPSON, Wainwright Bldg., St. Louis, Mo., for erecting shops and a roundhouse at Taylor, on which work is to be started at once. The cost of the improvements will be about $45,000. Work has already been started dredging and damming the Flag Springs Lake, from which water is to be pumped to the new Taylor shops. O. H. Criteenden, Palestine, Tex., is Consult. Engr.

SOMERVILLE, TEX.—A contract has been let by the Gulf, Colorado & Santa Fe Ry. Co. to H. D. McCOY, of Cleburne, for constructing an engine house at Somerville, to cost about $30,000. Additional tracks yet to be laid will bring the total cost for the improvements up to $50,000. P. T. Dunlop is Mech. Supt., Cleburne, Tex.

PORTLAND, ORE.—The Portland Railway, Light & Power Co. is preparing plans for the construction of a car house to be located between East Burnside and East Ankeny Sts., east of East 28th St. The structure will be built of reinforced concrete and will cost, it is estimated, $35,000. Its capacity will be 50 cars. F. I. Fuller, Vice-Pres.

Plans are being drawn for a 6-story concrete building, to be erected for John Deere Plow Co., of Moline, Ill., between East Second and East Third Sts., purchased from the Ladd Estate for $120,000. Plans for the building are being prepared at Moline, Ill., and when ready contracts will be let and work started.

BENICIA, CAL.—We are officially advised that the Benicia Iron Works, Benicia, have let contracts for work on its proposed plow and bolt shops, the estimated cost of which is $20,000. The buildings are to be of steel frame, with sides and roof of reinforced concrete, the windows of wire glass. The work is for an extension of the present plant, and the equipment will be to extend the line of disc plows and scrapers. C. J. Dale, Supt., and A. K. Macfarlane, Jr., are in charge of the construction.

AROOSTOOK JUNCTION, N. B.—Contracts have been let to J. H. HAGUE for building a 6-stall concrete and steel roundhouse for the Canadian Pacific Ry. to cost $20,000; four cottages, to cost $6,000, and a steel turntable, with concrete pit and piers, to cost $7,000.

## MISCELLANEOUS CONTRACTS.

*(* denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

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DRAIN.—Clarion, Iowa.—Bids are asked until 2 p. m., Sept. 14, by the County Auditor for construction of drain No. 39.

DITCH.—Ventura, Iowa.—The contract for the construction or drainage ditch No. 16, near Ventura, has been let to CHRIST. CHRISTIANSEN, of Garner, Iowa, at $5,892.

DITCH.—Mankato, Minn.—Contract for building County Ditch No. 22, in Lincoln Township, has been awarded to the MADELIA CEMENT TILE CO., Madelia, Minn., at $8,500.

STEEL TOWER.—Wilmington, Del.—Bids will be received until Sept. 27 by the Light-House Engineer, Wilmington, for erecting a steel tower at Reedy Island Range, Rear Light Station.

PIER.—Canandaigua, N. Y.—The Village of Canandaigua has let contract to Z. T. DARROW & SON, Canandaigua, for construction of concrete pier in Canandaigua Lake. Cost, $15,000.

LEVEE.—New Orleans, La.—Bids will be received until 11 a. m., Sept. 20 by Capt. H. Burgess, Corps Engrs., U. S. A., for constructing about 7,000 cu. yds. earthwork in the Barataria Levee Dist.

FIRE HOSE.—Braddock, Pa.—Bids are asked by the Borough Secretary until 7.30 p. m., Sept. 7, for furnishing 1,000 ft. of 2½-in. fire hose. Bids must be accompanied with samples of hose bid upon.

SUBWAY.—Saskatoon, Sask.—Bids will be received by J. H. Trusdale, City Clk., until Sept. 22 for the construction of a subway under tracks of the Canadian Northern Ry. in this city. Geo. T. Clark, City Engr.

*CONCRETE MATERIAL.—Detroit, Mich.—Bids are asked by the Board of Water Commissioners until 3 p. m., Sept. 14, for steel for reinforcing concrete, cement, gravel, limestone, etc. See advertisement for quantities.

WHARF.—New Orleans, La.—Bids will be received until Sept. 7 by the Board of Port Commissioners for constructing a wharf, Napoleon Ave. to Lyons St., material to be furnished by this board. A. C. Bell, Engr., 606 Hibernia Bank & Trust Co. Bldg.

EXCAVATION. — Sacramento, Cal.—Bids are wanted on moving 160,000 cu. yds. of earth and rock in construction of a side hill ditch extending 28 miles. No sub-letting allowed. Information furnished on application. P. O. Box 559, Sacramento, Cal.

DITCH.—Clinton, Iowa.—Bids will be received until Sept. 13 by the Board County Supervisors for constructing a drainage ditch in Drainage District No. 8, Sections A to I, requiring in all about 8½ miles ditch work. Frank W. Leedham, County Audr.

SUPPLIES.—New York, N. Y.—Bids are asked by the Department of Docks until noon, Sept. 13, Contract No. 1162, for furnishing and delivering iron, steel, pipe valves, lumber, rubber goods, ship chandlery, paints, oils, electrical supplies, etc.

MATTRESSES, ETC.—New Orleans, La.—Bids will be received by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., until Sept. 13, for constructing and sinking mattresses with stone at Southwest Pass, Mississippi River, and for extension of the east jetty.

VESSEL.—Washington, D. C.—Bids are asked until 2 p. m., Sept. 10, by the Light-House Board for furnishing materials and labor of all kinds necessary for the construction, equipment and delivery of the twin-screw, steel, steam light-house tender Camellia.

STORAGE DAMS.—Port Arthur, Ont.—WHITE & WHITE, Burlington, Ont., have been awarded the contract for the construction of the three government storage dams at Dog Lake Falls for which the government has voted $40,000. The work involves a quantity of rock blasting.

STEEL BARS.—Atlanta, Ga.—Bids are asked until 10 a. m., Sept. 20, by R. V. La Dow, Supt. Prisons, Dept. of Justice, Washington, for furnishing and delivering at the United States Penitentiary, Atlanta, Ga., steel bars for use in making door and window gratings for the hospital building.

COAL POCKET.—Troy, N. Y.—The Peterson & Packer Coal Co., I. H. Williams, Pres., will construct reinforced-concrete coal pocket, 70 x 150 x 75 ft. high, with trestle, at Fulton and Fourth Sts. Adolph Suck, Hyde Park, Mass., Arch., has prepared plans. The owner will receive bids.

*DRAINAGE CANAL.—Augusta, Ga.—Bids were received by the Canal and River Commission Aug. 17 for excavating a drainage canal about 3½ miles long, 30 ft. wide and 6 ft. deep. Nisbet Wingfield, Ch. Engr. Contract was awarded to the NORTH ALABAMA CONSTRUCTION CO., Riverton, Ala., at $19,450.

SIGN POSTS, ETC.—New York, N. Y.—Bids are asked until 2 p. m., Sept. 8, by John F. Ahearn, Pres. Boro. Manhattan, for furnishing and delivering (1) cast-iron sign posts, with flange; (2) cast-iron sign posts, with ground piece; (3) cast-iron criss-cross sign holders, with standard; (4) cast-iron street sign boxes, with clamps.

*DREDGING.—Chicago, Ill.—Bids were received on Aug. 25 by the Sanitary District of Chicago for dredging work. For details see advertisement in issue of Aug. 12. The bidders, all of Chicago, were as follows: Shnable & Quinn, $45,176; James O. Heyworth, $47,485; National Contracting Co., $48,650; John W. Page, $50,855.

LATRINES.—Key West, Fla.—Bids were received as follows on Aug. 28 by the Bureau of Yards and Docks, Navy Department, Washington, for the construction of latrines at the Naval Station, Key West, Fla.: C. & W. Mfg. Co., 26 Cortlandt St., New York, $4,813; Penn Bridge Co., Washington, D. C., $4,970; Ferguson & Ward, Key West, Fla., $4,533.

MONUMENT.—Ciudad Juarez, Mexico.—Governor Enrique C. Creel announces that the contract for the building of the monument to the great Mexican statesman and President, Benito Juarez, at Ciudad Juarez, on the northern border of this state, has been let to JULIO DE LA TORRE, Engr., of Mexico City; also that the contract price is $117,000, Mexican money, and that the work has been commenced.

DREDGING.—Philadelphia, Pa.—The Bureau of Yards and Docks, Navy Department, Washington, has awarded as follows contracts in connection with dredging work at the Philadelphia Navy Yard: AMERICAN PAVING & CONSTRUCTION CO., Philadelphia, item 2, $23,000; item 4, 9½ cts.; item 5, 14 cts.; item 7, 14 cts. ATLANTIC DREDGING CO., Philadelphia, item 3, 19 cts.; item 6, 7⅞ cts. Bids were opened on Aug. 7.

VACUUM CLEANING SYSTEM.—Portland, Me.—Bids were received by the Supervising Architect, Treas. Dept., Washington, D. C., on Aug. 26, for the installation of a vacuum cleaning system in the U. S. Court-House at Portland, as follows: Vacuum Cleaner Co., New York, $4,200; Spencer Turbine Cleaner Co., Hartford, Conn., $2,522; American Air Cleaning Co., Milwaukee, Wis., $3,154; Blaisdell Machinery Co., Bradford, Pa., $2,983.

RIFLE PITS.—Blauvelt, N. Y.—The bids received on Aug. 31 by the State Armory Commision for the construction of concrete rifle pits at the Rifle Range at Blauvelt, Rockland County, N. Y., were: Frank Besch, Troy, N. Y., $28,640; John R. Lee, Paterson, N. J., $44,000; Merrill-Ruckgaber Co., 50 Church St., New York, $45,088; N. D. Peters & Co., Utica, N. Y., $50,700; George C. Hudson, Highland Falls, N. Y., $75,380. Frank A. McNeeley is Secy. of Comn., Albany, N. Y.

DREDGING.—Elsie, Mich.—The contract for the Clinton-Shiawassee drain, commencing on sections 33 and 34 on the town line, Fairfield Township, and running in a northwesterly course crossing the county line between Clinton and Shiawassee Counties to section 24, Duplain Township, then northwest across sections 24, 13, 14 and 15, into Maple River, has been let to DR. HENRY PALMER, of St. Johns, Mich. The drain consists of 1,736 rods and it was sold at $5.49 per rod.

RIFLE BUTTS, ETC.—Philadelphia, Pa.—Bids were received as follows on Aug. 28 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing rifle butts and markers' shelter, Philadelphia, Navy Yard: Thomas & Watkins, 140 Laurel St., Woodbury, N. J., $24,900; Latta & Terry Construction Co., 1319 Pennsylvania Bldg., Philadelphia, $19,480; James H. Stitzer, Jr., 1201 Chestnut St., Philadelphia, $34,975; Edward Fay & Son, 1521 Ranstead St., Philadelphia, $16,890.

TUNNEL.—Trenton, N. J.—Bids will be received by the Board of Chosen Freeholders, W. Scott Taylor, Dir., until Sept. 14 for furnishing material and constructing concrete abutments and wing walls, concrete protected steel superstructures, necessary grading of approaches, construction of drain, cement curb, and sidewalks, roadway, paving, etc., for a tunnel under the Belvidere division of Pennsylvania R. R. and Delaware & Raritan Canal feeder on line of Parkside Ave., Trenton. Frank J. Eppele, County Engr.

PIPE.—McKeesport, Pa.—Contracts for 50 miles of 18-in. pipe, costing $900,000 have been placed with the NATIONAL TUBE CO., and the pipe will be turned out at the McKeesport mills. Forty miles of the pipe has been ordered by the Pennsylvania Connecting Gas Co. for a new pipe line connecting with the company's new wells in the West Virginia field. The Kansas Natural Gas Co. awarded a contract for 10 miles of 18-in. pipe to be laid in the Kansas field. The company will expend about $1,000,000 for the extension of its lines and for new wells in the Kansas field this year.

LEVEE.—Colusa, Cal.—Bids were received by the County Surveyor on Aug. 19, for levee improvements in Mormon basin, to cost about $40,000. The contracts were let as follows: Subdivision No. 1, along Sycamore Slough, to DAN AINGER, Grimes, Cal., price, 21½ cts. per cu. yd. Subdivision No. 2, to F. PHOUR, Colusa, price, 26 cts. Subdivisions 3, 4 and 5, to LAUGENOUR & KELSBEEK, Colusa, price, 20 cts., 16 cts. and 16 cts., respectively. The piling for the Browning break was let to J. M. PEART & SON, for $3,434, and the piling for the Coughlan break was let to W. C. BLEAN, Colusa, for $2,242, and the concrete work for 170 cu. yds. at $10 per cu. yd.

DREDGING SLIP.—Boston, Mass.—Bids were received as follows on Aug. 28 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a slip between pier No. 2 and Dry Dock No. 2, dredging and new decking for Pier No. 8, as per Specification No. 1635: Lawler Bros., 16 City Square, Boston, (Item 1) $39,444, (Item 2) $31,444. (Item 3) $8,000; William L. Miller, 19 Milk St., Boston, (Item 1) $51,400, (Item 2) $42,400, (Item 3) $10,000; W. H. Ellis, 18 Tremont St., Boston, (Item 1) $40,737 and $40,937, (Item 2) $32,700 and $32,900, (Item 3) $8,037, (Item 4) $38,782; Eastern Dredging Co., 247 Atlantic Ave., Boston, (Item 1) $57,753, (Item 2) $47,351.

PROJECTILES.—Washington, D. C.—Bids were received as follows by the Chief of Ordnance, Navy Department, Washington, for furnishing 8,000 or 4,000 five-inch common steel projectiles, and 2,000 or 1,000 five-inch target projectiles: American-British Mfg. Co., Bridgeport, Conn., 8,000 common, $8.75; 4,000 common, $9.99; 2,000 target, $6.75; IIII target, $7.22. E. W. Bliss Co., Brooklyn, N. Y., 2,000 target, $5.73; 1,000 target, $6.73; 8,000 common, $7.11 4,000 target, $8.11. Midvale Steel Co., Philadelphia, 4,000 common, $16.45; 1,000 target, $11. Bethlehem Steel Co., South Bethlehem, Pa., 8,000 common, $7.15; 4,000 common, $7.29; 2,000 target, $5.39; 1,000 target, $5.49.

*CEMENT.—Cincinnati, Ohio.—Bids were received on Aug. 17 by Col. Wm. T. Rossell, Corps Engrs., U. S. A., for furnishing about 10,000 bbls. of American Portland cement at Fernbank, Ohio—(a) brand; (b) weight in lbs. per bl.; (c) price in cloth sacks, per bbl.: Atlas Portland Cement Co., New York, (a) Atlas, (b) 376, (c) $1.3864; Superior Portland Cement Co., Cincinnati, Ohio, (a) Superior, (b) 375, (c) $1.15; Louisville Cement Co., Louisville, Ky., (a) Speed, (b) 380, (c) $1.18; Alma Cement Co., Wellston, Ohio, (a) Alma, (b) 376, (c) $1.16; Universal Portland Cement Co., Pittsburg, Pa., (a) Universal, (b) 375, (c) $1.44; Lehigh Portland Cement Co., Cleveland, Ohio, (a) Lehigh, (b) 375, (c) $1.28; Alpha Portland Cement Co., (a) Alpha, (b) 380, (c) $1.39; Kosmos Portland Cement Co., Louisville, Ky., (a) Kosmos, (b) 380, (c) $1.28.

## EXAMINATIONS.

DESIGNER, DRAFTSMAN, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on Sept. 18 for the following positions: Architectural Designer, State Departments, $1,501 to $2,400. Open to men only. The position requires expert drafting and designing. The examination consists of the making of a complete design of the whole or assigned parts of a building to meet a given problem. Competitors must provide drafting instruments and drawing boards suitable for paper 17 x 22 ins.

Topographic Draftsman, $900 to $1,500. One appointment is expected in the office of the Commissioner of Records, Kings County.

Tracer or Delineator, State Departments, $480 to $900. Minimum age, 18 years. Subjects of examination: Elementary geometrical constructions, inking in drawings, making tracings and copies of drawings to scale and lettering.

Inspector of Drawing and Industrial Training (Male), Education Department, $2,500. Non-residents or non-citizens will be admitted to this examination, subject to the provisions of Regulation X, that in case the eligible list contains the names of three or more citizen residents of New York State they shall be preferred in certification over non-residents and non-citizens. Candidates must be expert in drawing, particularly in industrial expression, designing and coloring. Some experience in supervising teachers is desirable. The appointee must be able to present the subjects of industrial training in its many phases, through accurate written papers and convincing public addresses; and must be ready to travel and propagate industrial training in all parts of the state.

## INDUSTRIAL NOTES.

H. B. PEARSON, JR., AND W. BRUCE GIBSON have opened offices in El Centro, Cal., as consulting and constructing engineers in civil, mechanical and electrical engineering, and under the firm name of Pearson & Gibson.

THE CROCKER-WHEELER CO., manufacturers and electrical engineers, of Ampere, N. J., announce that they will open an office in the Ford Building, Detroit, Mich., on or about September 10. Mr. Charles W. Cross will be the manager of this branch.

THE ALLIS-CHALMERS Co., of Milwaukee, Wis., informs us that it has entered the field as manufacturers of machinery for sand-lime brick. It has employed as commercial engineer Mr. Franklin Henshaw, an engineer of wide experience in this line and formerly associated with the International Sand-Lime Brick Co., of New York.

IN CONNECTION with the Second Annual National Good Roads Convention, to be held at Cleveland, O., September 21-23, the Filbert Paving & Construction Co., of Philadelphia, will have an exhibit of the "Filbertine" dustless road, asphalt and cement construction, etc., at the Central Armory, under the direction of Mr. T. Hugh Boorman.

THE FALKENAU ELECTRICAL CONSTRUCTION CO., of Chicago, has nearing completion and under way the following work: Complete hydro-electric plant, including dam, for the city of Crystal Falls, Mich.; electrification of the McCormick Works of the International Harvester Co., Chicago, Ill.; complete hydro-electric plant, including dam and the creation of a lake 300 acres in extent, for the city of Paw Paw, Mich.; electrification of the Keystone Works of the International Harvester Co., Sterling, Ill.; complete sewage disposal plant for the city of Cadillac, Mich.; complete switchboard and electrical control system for the United States Steel Corporation, Gary, Ind.; deep excavation and heavy foundation work for the 36,000 KW. power station for the Cincinnati Traction Co.; electrification of the works of the U. S. Crushed Stone Co., McCook, Ill.; partial electrification of the Dolese & Shepard Stone Crushing Plant, Gary, Ill.

THE DAYTON GLOBE IRON WORKS, Dayton, Ohio, reports that a contract has recently been received from the United States Government for two 44-in. Improved New American Turbines, to be installed vertically in open concrete flumes, and to be complete with gears and special bed plate to receive air compressors which will be built by the Hall Steam Pump Co., of Pittsburg, Pa. These two units will be installed in the Turbo-Compressor Plant which the United States Government is erecting at

Lock No. 5 of Monongahela River. The work is in charge of Major H. C. Newcomer, of the Corps of U. S. Engineers, with headquarters in Pittsburg. These turbines will be of a special nature, brass-fitted, so as to prevent the corroding effect caused by the water of Monongahela River. The receipt of the following orders is also reported: From the Beaver Valley Water Co., Beaver Falls, Pa., for two vertical turbines, one 51-in. wheel and the other a 19-in. wheel, each complete with vertical and horizontal shafting and bevel gears, and arranged to direct connect to the pumping units; for head-gate work for the Twin Falls Salmon River Land & Water Co., for installation at the Salmon River Dam in Idaho; this consists of four cast-iron gates and frames, complete with specially constructed steel piers, each of the gates to be 2 ft. 6 ins. wide by 10 ft. high. This order also includes the necessary hoisting mechanism, which consists of ball-bearing compound geared screw lifts, together with the necessary lengths of gate stems, guide brackets and torsion guides. These gates will be operated at the controlling works for the outlet into the tunnel, and will work under approximately 84 ft. head of water, the hoisting mechanisms being placed approximately 92 ft. above the bottom of the gates; from Connell & Connell, engineers, New York, N. Y., for the complete head-gate hoisting mechanism for four 6 ft. × 17 ft. 6 ins. gates, which will be installed in the new hydro-electric plant now being built by the Uniform Fibrous Talc Co., near Hyatt, St. Lawrence County, N. Y.

## TRADE PUBLICATIONS.

COAL AND ORE-HANDLING MACHINERY.—C. W. Hunt Co., 45 Broadway, N. Y. Catalog No. 091. Paper; 6½ × 9¼ ins.; pp. 86; illustrated.

Hoisting and conveying plants, coal dealers' equipment and industrial railways are described and illustrated in this catalog.

CONCRETE MIXER.—Nims Concrete Machinery Co., 127 Franklin St., New York. 6 × 9 ins.; pp. 32; illustrated.

The Nims mixer, one of the batch type, is composed of two cubical drums swung on the same axle. In the first of the drums is done the dry mixing, and this dry mix is automatically passed to the second drum where the final mix is made. The title of this pamphlet is "How to mix and place concrete for 5 cts. per cu. yd."

SPECIAL ALLOY CASTINGS.—Veeder Mfg. Co., Hartford, Conn. Catalog No. 15. Paper; 3½ × 6¼ ins.; pp. 12; illustrated.

Veeder castings are made in steel dies by automatic machines, from the alloy used in the counting wheels and gears of Veeder speed counters, cyclometers, etc. Such castings are suitable for coin-counting machines, cash registers, typewriters, telephones, etc. The strength of the alloy is given as 15,000 lbs. in tension and 20,000 lbs. in compression.

TELEPHONE-LINE TRANSFORMER.—General Electric Co., Schenectady, N. Y. Booklet 3770. Paper; 3½ × 6 ins.; pp. 8; illustrated.

This company has designed and is selling a small telephone-line insulating transformer intended for use on lines used in connection with high-voltage transmission systems as protection against accidental high voltage. With these between line and instruments it is possible and safe to carry on comprehensive conversation with a ground on the high-tension lines nearby.

SECTIONAL TILE CONDUIT.—H. W. Johns-Manville Co., 100 William St., New York City. Paper; 5¼ x 6¼ ins.; pp. 12; illustrated.

This booklet describes a tile conduit of special construction, which is made up of plain sections, tees, unions, etc., all divided longitudinally for convenience in installing. This conduit is intended for the protection and insulation of underground steam, hot-water or refrigerating pipes. Greater durability and better insulation are claimed with no higher first cost than for brick or concrete conduit.

ELECTRIC MOTORS.—General Electric Co., Schenectady, N. Y. Bulletins 4672, 4674 and 4679. Paper; 8 x 10½ ins.; pp. 8, 14 and 8, respectively.

The first of these bulletins is entitled "Electric Drive for Large Printing Presses" and describes this modern method of operating and controlling large presses.

The second bulletin shows the line of induction motors and control apparatus of this company. An interesting illustration in this bulletin is that of a 6,000-HP., 6,600-volt induction motor installed at Gary, Ind.

No. 4679 describes a new line of commutating-pole constant-speed motors, which this company is placing on the market. These motors are made in both slow and moderate-speed types, in capacities of from 20 to 280 HP. in the former, and of 30 to 350 HP. in the latter. They can be operated open, semi-enclosed, or enclosed, and may be installed on floor, wall or ceiling. The bulletin gives detailed descriptions.

ROAD AND DITCH GRADING MACHINERY.—J. D. Adams & Co., Indianapolis, Ind. Paper; various pamphlets and folders; illustrated.

One of the features of the Road-King graders is that on inclined or sidehill work the wheels are not perpendicular to the surface but take an oblique position, thus preventing side slipping of the machine. The machines are shown applied to road and irrigation work. One of the pamphlets is devoted to a lighter type of road grading and ditching machines, while another is devoted to a steel road-drag.

BAROMETRIC CONDENSERS.—The Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 x 10½ ins.; pp. 8; illustrated.

The Tomlinson barometric condenser is described in some detail, with particular reference to the special features distinguishing it from other condensers of the same type. In a power station, each engine has its own condenser, and one, the 74th St. station of the rapid transit system in New York, has 16 Tomlinson condensers connected to 16 engines of 10,000 HP. each. No dry-air pump is required.

IRON FENCES AND BRIDGE RAILINGS.—Chester B. Albree Iron Works Co., Allegheny, Pa. Catalog No. 9. Paper; 9 × 6 ins.; pp. 170; illustrated.

This catalog contains drawings of a large variety of iron fence and railing designs. The illustrations are accompanied by brief notes giving such information as picket spacing, size of rails, etc. At the back of the book are shown a number of half tones from photographs of completed bridge railings. A diagram is included by means of which can be found the proper length for rivets of a given diameter and length of grip.

SMALL ELECTRIC LAMPS.—Engineering Department of the National Electric Lamp Association, 4411 Hough Ave., Cleveland, O. Bulletin 6E. Paper; 6 × 9 ins.; pp. 15; illustrated.

Tungsten-filament lamps of about 4 c.-p., 5 watts, are now marketed to replace the 4-c.-p., 10-watt carbon-filament electric lamp generally used for illuminated signs, decorations, etc. As these are made for low voltages only (8 to 12), an additional small transformer is necessary, but this brings to combined consumption up to only 5.5 watts. This bulletin gives a general discussion of proper installation and operation.

WOOD-BORING MACHINE.—Geo. Garretson, Eighth and F Sts., San Diego, Cal. Paper; 8½ × 11 ins.; pp. 4; illustrated.

A two-spindle machine for boring joists for the passage of electric wires is shown in the illustrations of this pamphlet. The boring can be done by a workman standing on the floor below the work. Motion is transmitted to the spindles from the hand crank by chain and sprockets. The feed is obtained by means of a second chain, whose sprocket-wheel drives spur gears, meshing with the spindles, which are grooved so that they constitute cylindrical racks. The text of this pamphlet is so poorly written as to be scarcely intelligible.

SCRAPER BUCKET EXCAVATOR.—Lidgerwood Mfg. Co., Chicago. Paper; 9¼ × 12 ins.; pp. 40; illustrated.

The Lidgerwood-Crawford excavator is of the scraper-bucket type which has come into extensive use. It consists of a revolving derrick with A-frame and long boom, handling the Page special form of bucket. Various modifications and designs are included, with particulars of their dimensions, power equipment, etc., while the illustrations show the different machines in use on various kinds of excavation and construction work. Among the specialties included are boilers, an acetylene headlight for night work, and a pneumatic or steam controller which facilitates rapid operation of the machine.

**For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 88.**

## All Bids for Repairs To Reservoir at Doylestown, Pa., Called Off.

At a special meeting of the Borough Councils of Doylestown, Pa., held Tuesday, August 31st, at 8 P. M., it was resolved that all bids for repairs to reservoir be called off, due to shortage of water caused by drought, preventing emptying reservoir for inspection. Notice will be given to prospective bidders when this matter is up for reconsideration.

(Signed) A. HARRY CLAYTON,
Borough Clerk.

## BRIDGES.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF SURVEYS,
OFFICE 412 CITY HALL.

Philadelphia, Aug. 30, 1909.

Sealed proposals, endorsed "Bids for Bridges," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Tuesday, Sept. 14, 1909, for Schedule A. Bridges.

Plans for the above work will be exhibited in the office of the Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

GEO. R. STEARNS,
Director.

## CAST-IRON PIPE AND SPECIALS FOR NEW WATER-WORKS.

Parkersburg, W. Va., Aug. 30, 1909.

Sealed proposals for the furnishing and delivery of cast-iron pipe and specials for a new water-works system for the City of Parkersburg, will be received at the Office of the City Auditor until 7 o'clock P. M., Sept. 16th, 1909, and will be publicly opened and read by the Board of Affairs of said City at 8 o'clock P. M. of the same day.

All bids must be made on blank forms supplied by said City.

Copies of Specifications may be obtained by intending bidders at the Auditor's Office in said City.

Included in the items are the following approximate quantities:

| | Approx. |
|---|---|
| 20" Cast-Iron Pipe | 800 Tons |
| Cast-Iron Specials | 18½ " |
| Flange Pipe and Specials | 13 " |
| 6", 8", 10", 12" Cast-Iron Pipe | 974 " |
| Specials | 38 " |

The City reserves the right to reject any and all bids, or any part of any bid or bids, and to omit any item in whole or in part.

A certified check for $500, payable to the City of Parkersburg, must accompany each proposal.

FRANK GOOD,
Auditor.

## SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a portion of Section "D," Southern Outfall Sewer, Contract No. 56, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, Sept. 17th, 1909.

The work will consist mainly of building about 1,327 feet of 13'-0" sewer from 32 to 36 feet deep, and including 2,350 cu. yds. of reinforced concrete.

Plans and specifications may be seen at the office of the Commissioners.

Sealed bids should be endorsed "Proposals for a Portion of Section "D," Southern Outfall Sewer," and addressed to the "Commissioners of Sewerage, Equitable Building, Louisville, Ky." Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

## RAILROAD WORK.

ATLANTIC COAST LINE RAILROAD CO.
Wilmington, N. C., Sept. 2, 1909.

Sealed proposals will be received by the undersigned until noon, September 23d, 1909, for grading, concrete, ..., etc., in connection with grading and line revision of the Wadesboro Branch of the Atlantic Coast Line Railroad between Florence, S. C., and Wadesboro, N. C.

The work will consist of the following estimated approximate quantities:

| | |
|---|---|
| Excavation | 1,100,000 cubic yards. |
| Concrete | 14,000 cubic yards. |
| Track Laying | 15 miles. |

Profiles, plans and specifications can be seen and information obtained by application to the Division Engineer at Florence, S. C.; the Resident Engineers at Cheraw, S. C.; Morven, N. C., and at office of Chief Engineer, Wilmington, N. C.

The work will be let either in a whole or in part.

The right is reserved to reject any or all bids.

E. B. PLEASANTS,
Chief Engineer,
Atlantic Coast Line R. R. Co.,
Wilmington, N. C.

OFFICE, COMMISSIONERS, DISTRICT OF COLUMBIA, Aug. 30, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, Sept. 11, 1909, for curb and corporation cocks. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, WILLIAM V. JUDSON, Commissioners, D. C.

## Situations Wanted

### Draftsmen.

DRAFTSMAN and designer, technical graduate; wide experience on digging and lifting machinery, and plants for handling of materials. Address "C. B. 10," Engineering News, New York. 10-1t

WANTED—By Lady, position as draftsman in engineer's office; railway construction preferred. Address "P. A. S," Engineering News, New York. 10-1t

IN MEXICO—Draftsman, age 27, wishes position in Mexico. Experience; six years railroad and four years mechanical work; prefer railroad or irrigation company. Address L. R. PIERCE, 233 First Ave., Salt Lake City, Utah. 10-3t

### Civil Engineers.

GRADUATE ENGINEER, with 20 years' practical experience in power plant, building construction, municipal and government work, desires change from present position; executive ability and resourcefulness; East preferred; highest references. Address "D. B. 10," Engineering News, New York. 10-1t

### Surveyors.

RODMAN, with 3 years' practical experience, desires position; run instruments; 2 years college; go anywhere. Address "B. B. 10," Engineering News, New York. 10-1t

## Situations Open

WANTED—Thoroughly experienced designer and detailer in both reinforced concrete and structural steel work. Railroad office. Mention salary, experience, education and earliest date available. Address "F. B. 10," Engineering News, New York. 10-2t

WANTED—One first-class detailer and two checkers, experienced in shop drawings for bridges and buildings. State age, salary, experience and when you can report for work. JOLIET BRIDGE & IRON COMPANY, Joliet, Ill. 10-1t

WANTED—Draftsmen capable of detailing and checking bridge and structural work. Applicants must state fully their experience and salary expected. YORK BRIDGE COMPANY, York, Pa. 10-3t

WANTED—A Civil Engineering graduate of high scholastic standing for an instructorship in Civil Engineering in an Eastern engineering school. Initial salary, $800.00. Experience in practice desirable but not requisite. Apply with references to "H. B. 10," Engineering News, New York. 10-2t

WANTED—Designer and detailer of structural steel work, with at least one year's experience. Middle West. State salary, training, and date you can report. Address "G. B. 10," Engineering News, New York. 10-2t